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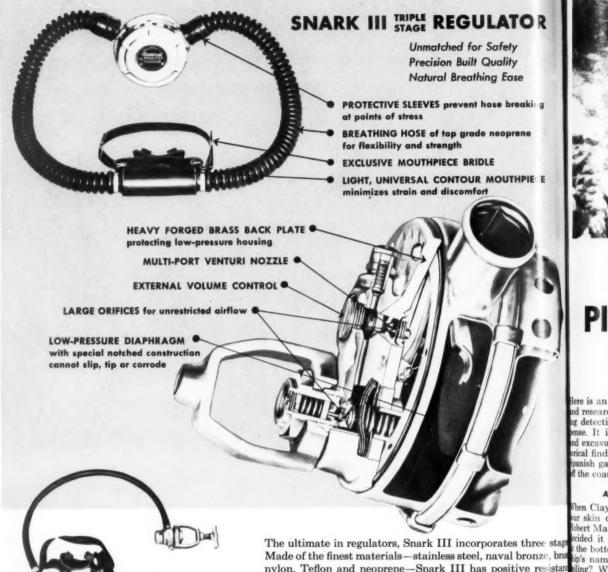
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DIVING for **Pleasure and Treasure** By CLAY BLAIR, JR.

Here is an authentic tale of exploration nd research that rivals the most thrillng detective story in drama and susnse. It is the story of the discovery nd excavation of one of the great his-orical finds of our century: the sunken mish galleon El Matanzero, wrecked the coast of Yucatan in Mexico.

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A 200-year-old riddle

Then Clay Blair, Jr., author and amaeur skin diver, and skin-diving expert Robert Marx first located the wreck they aree stage cided it must have lain for centuries onze, bra hip's name? Under what flag was she resistan hiling? Why did she sink? What was al-to-met er cargo? Where was she bound? Was zing" com true that she carried a fabulous treasarable during silver, and jewels — and a arable during and another in gold, silver, and jewels — and a andalous secret — with her to the bot- I provide m of the sea? These were the quessible on one Blair and Marx set out to answer.

Solving the riddle

to the strange and exotic land of the layas went the first expedition. Its misto map the underwater area and rape the surface of the coral-covered eck. Two more expeditions followed. attling incredible hardships of hunger, irst, tropical heat, and swarms of insects - and the hazards of strong winds, pitching seas, and repeated encounters with sharks and barracuda - they recovered more and more coral-encrusted finds: pieces of pottery, rum bottles, ship's nails, coins, spoons and buckles, a brass crucifix, and the most astonishing find of the expedition: a gold pocket watch containing two scraps of newspaper in a perfect state of preservation. Blair and Marx now had the pieces of the jigsaw puzzle, but what story would the finished picture tell?

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SKIN DIVER—October 1960

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SKIN DI

BIG OPENINGS -**BIG VALVES**

Solution To The Tank Problem

Does Your Cylinder Have Rust Inside

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Shake your Air Cylinder-can you hear loose rust scales bounce around? How can you determine if your tank is starting to corrode? I have examined many tanks, some five years old and used as rentals which were perfect inside. Others used privately for a few months which were in very bad shape on the inside.

The age and the exterior appearance of your Air Cylinder are no criteria for interior condition. Corrosion is no problem on the exterior. Exterior corrosion can be caught immediately and stopped with a little paint-but how can you detect interior corrosion? We believe the opening should be larger than the old small "pipe tap" opening in the standard 72 cu. ft. cylinder, so that you can really see inside the tank.

The ideal opening in the cylinder neck should allow:

An adequate size for easy inspection. A valve permitting easy removal for inspection - without "special" tools. The diver to do his own inspection without returning the tank to a specially equipped facility each time he fears rust in-

The old standard 1/2 inch "pipe tap" requires the valve to be "torqued-in" under heavy torque with special equipment. The average diver can't do this himself,-and the opening is so small, that inspection is extremely difficult.

With the 1/2" "pipe tap" in addition to the extremely high torque, a compound such as litharge must be used to assure no leakage of air. This re-REIGH. Sults in a union of valve and tank which has a tendency to mutilate threads and freeze the two together.

Extreme effort is generally necessary to break this seal, and quite often the mutilation of the valve results when a wrench is applied to remove the valve.

The U.S. Navy, in 1958, placed a large contract with U.S. Divers for aluminum air cylinders. Research in cooperation with the Navy's Experimental diving unit resulted in a cylinder which had a large neck opening for easy inspection and an "O" ring valve seal for easy valve removal.

Time For A Change

These same principles have been used now by skin divers for the last year with U.S. Divers' equipment and with complete success. These are the reasons!

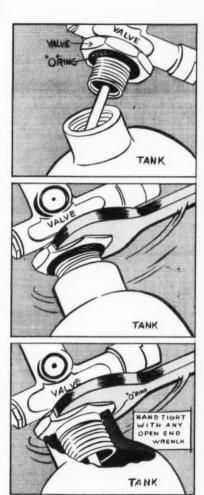
THE OPENING IS BIG. The inspection opening in the cylinder neck has an area over 78% greater than the 1/2 inch "pipe tap" open-

VALVE INSTALLATION IS EASY. The threads are "straight" not tapered. No high torque is necessary with straight threads.

"O" RING SEALS ARE POSI-TIVE, underwritten this last year by thousands of divers, recognizing that every major user of hydraulic and pneumatic equipment subject to tough conditions of vibration, shock, and environmental extremes use "O" ring seals.

NO REMOVAL UNDER PRES-SURE. This U.S. Divers' valve is screwed in the opening and snugged up hand tight with an average open end wrench-in order to deform the "O" ring, thereby giving a valve that cannot be removed as long as there is air pressure in the

"A valve which is only finger tight will not give you this protection."



Make Each Dive A Safe Dive

Make sure your tank has the big opening and the big valve featured only by U.S. Divers "Aqua-Lung." The big valve with the "O" ring seal. Anything else is outdated don't risl your safety on a cylinder you can't in spect at anytime or anywhere yo

Lac Wheeler



Magazine

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cover

The South Seas create an illusion of island paradises . . . thatched huts . . . palm trees . . . blue lagoons . . and pretty native girls. Our colorful cover depicts the island scene as a Tahitian girl admires the catch of her companion . . . outfitted with modern diving equipment brought to the tropical isles by divers attracted to the warm, crystal clear waters abundant with marine flora and fauna.

JIM AUXIER

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> Devoted to the underwater world

Skin Diver Magazine is published each month for underwater enthusiasts to create a further interest in skin diving and underwater spearfishing; to aid and advance scientific research through underwater swimming methods; to encourage and promote all types of activities participated in and caused by underwater swimming enthusiasts and to provide an advertising medium for manufacturers, distributors and dealers of marine products. All manuscripts, photography and materials are submitted free and released for publication, becoming the property of SKIN DIVER MAGAZINE, unless previous copyrights exist. Authors and photographers should clearly mark all material submitted for publication so that credit may be given. The publishers do not necessarily agree with, nor stand reaponsible for, opinions expressed or implied by others than themselves. SKIN DIVER MAGAZINE was established and has been published continuously since December 1851, Skin Diver Publications, Inc.

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October 1960 No. 10 Vol. IX

Features

World Underwater Spearfishing Championships Glasspar Diving Derby SOUTH SEA SPECIAL FEATURES

Puka Paradise 16 18 Crays, Kingies and John Dorsies Diving the Philippines Majuro Tropical Spearfishing 24 Killer Clams 26

28 Adventuring in the Deep Great Barrier Reef

33 New Caledonia Land of Competition

Departments

Divers' Calendar Ripples 7-8-9 World Wide Underwater Publications News Current 32-35-36-37 Announcements Underwater Society of America 36 Driftwood 38 Personality Spotlight Junior Fin Fans National Association of Underwater Instructors 42 Divers' Bulletin Board Diving Equipment and Compressed Air Stations 60 Sub-Aqua Jobs Charter Boats Underwater Bookshelf Cover iii

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DIVERS' CALENDAR

October 5 Competitive Spearfishing Committee, Roosevelt Park, Los Angeles, Calif., 7:30 p.m.

October 9

Illinois Council of Skin and Scuba Divers Inc. General Assembly,
Lawson YMCA, Chicago, 2 p.m. "The Silent World" will be
shown.

October 15 or 29 Stanton Waterman films of underwater excavation of oldest Bronze Age ship discovered to date. Middle Atlantic Underwater Council (location and date to be announced).

October 21 Open ASDC Spearfishing contest, Indian River Inlet.

October 22 Third Annual Underwater Target Match and Diving Exposition,
Underwater Explorers Club, Philadelphia, Penna.

October 23 Second Annual Fall Individual Competition, Dana Cove Park,
Calif., 11 a.m.-3 p.m.

October 26 Deadline Southeast Council of Skin Diving Clubs photography contest (movie category).

November 3-6

Third Annual Netherland Antilles Spearfishing and Trolling
Tournament, sponsored by Tourist Bureau and KLM Royal
Dutch Airlines.

November 6-8 Western Market (NSGA), Ambassador Hotel, Los Angeles, Calif.

November 12 First Annual Indiana Skin Diving Council banquet, Hotel Van Orman, Fort Wayne, 5 p.m.

November 13 Michigan Skin Diving Council meeting, Lansing.

November 13 Annual starfish mop, Bodega Bay, Calif.

November 27 Ark-La-Tex Gar Rodeo, Hickory Hollow, Lake Bistineau, near Shreveport, La.

November Fish Derby, New Jersey Council of Diving Clubs (date and location to be announced).

November Illinois Council of Skin and Scuba Divers Inc. Second Instructors
Certification Seminar (date and location to be announced).

December 31 Atlantic Skin Diving Council Annual Dance.

December 26-January 4, 1961 Australian National Skin Diving and Spearfishing Championships, Phillip Island, Victoria, under auspices of U.S.F.A. of Australia.

January 6-7 Underwater Photographic Society national exhibition movies, black and white prints and color slides.

January 11 Captain Jacques Cousteau underwater films, Bushnell Memorial Auditorium, Hartford, Conn., 8:15 p.m.

January 18

Los Angeles County Department of Parks and Recreation 10th
Annual Underwater Instructors certification course.

January 20-21 Fourth Annual Underwater Film Festival, Santa Monica Civic Auditorium, Santa Monica, Calif. Underwater Photographic Society.

January 22-26 National Sporting Goods Show, Morrison Hotel and Palmer House, Chicago, Illinois.

February 12 Conference of California Councils, Greater Los Angeles Council of Divers.

The Skin Diver's Bible —

Basic Scuba

By Fred M. Roberts

Introduction by EDGAR END, M.D.

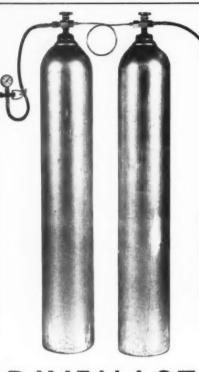
Now—as a beginner or an expert diver —you can benefit from an expert and widely experienced

diver who describes the operation, maintenance, and safe use of every make of Self Contained Underwater Breathing Apparatus currently available; gives you all the information you need to select the best and most practical type of equipment for your particular purposes. All types of masks, depth gauges, weight belts, knives, wet suits, dry suits, tanks, snorkels -in fact every bit of equipment you will use while diving is discussed and explained, with many charts and drawings to make every detail crystal clear. The necessary theories on gases, pressures, etc., are clarified in simple, direct langauge. A complete analysis of regulator operation is given. Diving diseases and how to avoid them are explained, along with the latest first aid methods, all checked by Dr. End, a specialist in the field.

A full course in using Scuba is included, complete with instructions on diving, clearing masks, etc. Decompression tables and their use, underwater photography, spearfishing, conservation projects, buddy breathing—all possible phases of skin diving are covered in an authoritative way by an unusually competent sportsman. 89 illustrations, 23 charts.

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Reader's Ripples

. If anyone is interested in diving for bugs in October, Charles Hall and I have a closed charter on the Vellron out of San Pedro. A two-day trip at Santa Barbara Island over the 29-30 of October. The price will be \$20.00 per person as long as the vacancies hold out. Anyone who wants a bunk can send a check or money order for full payment to Jim Jewett, 375 Park Avenue, Fresno, or Charles Hall 4553 E.

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Avenue, Fresno, or Charles Hall 4553 E. Inyo Avenue, Fresno.

. In the February issue of "Skin Diver Magazine," a worldwide roster of under water clubs was presented. The state of Mississippi had only two clubs listed—the Keesler Fin Twisters and the Mississippi Gulf Coast Menfish. I am trying to find out if there are any other clubs in Missispipol or presens interested in starting clubs. sippi or persons interested in starting clubs. Any information will be greatly appreci-

Mississippi Gulf Coast Menfish Bill Craig, President 2400 Cypress Avenue Gulfport, Mississippi

... Refering to a letter signed by Sidney Binder, published in the May issue of SDM, I wholeheartedly agree with Sid. SDM, I wholeheartedly agree with Sid.

Don McGee and his "Morays" are a wonderful bunch. Several members of the
Canadian Sub-Aqua Club, Toronto, spent
a few weeks diving in Florida and Bahamas. While in Miami they were "diving guest" of the "Morays." Don and all members of his club have shown marvelous inter-club cooperation and their friendliness and hospitality are to be highly commend-

B. Pelipeyko Canadian Sub-Aqua Club Toronto

After fourteen months we have finally mustered the ambition to write to you in regard to a picture published in the June

The picture was of a mammal washed up on the shore of Oregon and was later identified as the beaked whale. From the information available we believe that two of these legends of monsters in British Columbia may be solved.

One legend is of our famous "Ogopogo," One legend is of our famous "Ogopogo," of the Okanagan Lakes described as a monstrous beast with a head like a horse and a long bumpy body resembling a dragon. The other legend is "Caddy," seen occasionally about Victoria, Vancouver Island and along the Oregon Coast. It has been described by the persons who have

Island and along the Oregon Coast. It has been described by the persons who have seen it as having, a huge head, a long bumpy body and a long tail.

Officials and skeptics claim illusion or only a herd of sea lions. But! Is it? Could not the Ogopogo have been a beaked whale, swimming the Columbia River to Okanagan Lakes long before obstructions were placed there. And the Caddy may have been the mate who could not join Ogopogo due to these obstructions. Ogopogo due to these obstructions. Also, how about the Loch Ness Monster

and the dragons of ancient times. Could they not have been beaked whales also?

It's something to ponder.

It's something to ponder.

T. G. & R. E. Johnson
9336 Government Rd.,
Burnaby 3, B.C., Canada
Ogopogo, Caddy and Loch Ness Tassie
have theer place in history and won't mind

you ponder about beaked whales. (Continued on Page 8)



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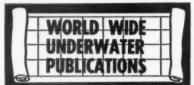
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Oakland, California

Reader's Ripples

... The picture on page 37, Sept. SDM, depicting the filming of "September was photographed underwater at Storm" was photographed underwater at Silver Springs. Naturally, I thought you would have known since the water and the pictures are so clear. Would really appreciate a correction.

Bill Ray Silver Springs Ocala, Florida August

Black record July article 1957

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There is no need for a correction or concern, Bill. Naturally we thought that every-one would automatically know that the sparkling one-half page photograph or-iginated from Florida's Silver Springs, That's where most of the commercial underwater movies are created.

. . . We shall be very grateful to you if you would please bring to the attention of your readers that there is in Toulon, a theater called "Challenge Cinematographic of Toulon" which is reserved for naval and underwater films exclusively. We will accept with great pleasure the films that your readers would be willing to send us. Also, we would like for all interested parties to write for futher informa-

Dr. Jacques Henri Baixe Challenge Cinematographique De Toulon 1, rue Peiresc



from our local paper featuring a write-up on my son. Hope you can use it in a future

issue of the magazine.

Jack M. Stroming

9 Lake Street

No. Haledon, New Jersey The clipping reads that four-year-old Jack Fr. cavorts every weekend under the water with full diving regalia (junior size) and claims that he is the youngest diver in the state. So far little Jack's diving has been in Lake Hopatcong but the ocean is only a dive away and will be his next conquest. All of his diving is under the full embergisters of diverse did not stated. full supervision of diver daddy Jack.

. I notice several remarks about amateur radio operators who are also skin divers. My call is W1QLD and I operate all frequencies up through 2 meters. My latest diving thrill was when I speared a 10 foot 4 inch blue shark at Flat Rock, Narragansett, R.I. Girth was 3 feet 11 inches and the weight about 300 pounds (scales not large enough). His color was anodized aluminum blue. It took eight of us to carry him up the hill after I landed him.

Merrill P. Budlong, W1QLD

31 Marcy Street Cranston 5, R.I.

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SKIN

. Concerning the World Record in the August issue. The article states that from June 30, 1956 to May 30, 1960 the record Black Sea Bass was 464½ pounds. This record was broken by Delos Finch III on record was broken by Delos Fines III on July 27, 1956 at least that is what the article "Big One Under the Rig" (May 1957 SDM) states. This article describes the chase and kill off the Texas coast. Finch speared and landed a 472 pound Black Sea Bass, seven feet, seven inches long. Is there a mix up in the records or what?

pt. SDM, September

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Ray r Springs Terry Callaway Rt. 1, Box 6048 LaPorte, Texas

... puzzled by the "Word Record Black Sea Bass" recently as the May 1955 SDM issue, page 15, has a 610 pound fish. Unsigned

Ridgecrest, California

Records are established and maintained by the International Underwater Spear-fishing Association, Los Angeles County Museum, Exposition Park, Los Angeles, California. In the case of the Finch fish it was taken while the diver was wearing artificial breathing apparatus, contrary to I.U.S.A. rules, and with the aid of other divers and surface equipment, also contrary to I.U.S.A. requirements for establishing a record. The 610 lb. fish of May 1955 was not submitted as a record and the landing circumstances are not known. It may be possible that this fish will even-tually be declared as the record.

. I am interested in corresponding with the various marine aquarists in the country who are also scuba divers. I feel that much can be learned in this field if people swap notes back and forth to each other by mail. Since new ideas and techniques develop so quickly, it would be much better for hobbyists to form together to diagnose these ideas. If anyone is interested, I would be glad to hear from you.

I enjoyed the August issue on Gold Diving, as well as every other issue of "Skin Diver." Would it be possible for you to devote an issue in the future on salt-water fish, collecting, etc.? I bet that this would appeal to many divers who find it difcult to distinguish between a flounder and a whale!

Doug Keene 352 Roosevelt Ave. Freeport, New York
SDM has some excellent material on

marine aquariums and collecting methods ready for publication. Watch for it.

. . . Enjoyed the September edition of "Skin Diver Magazine" very much but was somewhat saddened that an issue devoted to underwater photography did not include any plans for the construction of camera for pennyless do-it-yourself divers. I believe that more and more people would participate in skin diving and scuba diving if your magazine would include plans and small diagrams for such things as floats, weight belts, camera cases, etc. I personally know that many people are afraid to ven-ture past the "window shopping stage" equipment as prices are rather high. If you could pass along money saving hints for do-it-yourself hobbyists then I am sure more people will be enjoying the underwater world. In closing I must make it clear I am not emphazing cheapness over

John D. Bowman 2159 Dayton Avenue

St. Paul 4, Minnesota
Previous issues on underwater photography have had do-it-yourself plans and instructions . . . however, we missed the boat with the latest. Sorry. We would like to have money saving hints from the readers and will pay a full year's subscription for each one used. Send yours.

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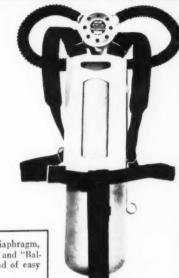
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SKIN DIVER-October 1960

Bruno Hermanny of BRAZIL 1960 WORLD CHAMPION

Spearfisherman



Aug. 20-23
Palermo, Eolie, Ustica
ITALY
By JERI BLAKESLEE

Sweet victory . . . as the TV and press cameras grind away.

Bruno, aboard the "Caralis", hefts part of first day's catch.



SKIN DIVER-October 1960

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DURING the month of August, diving teams from 19 nations laced the Italian boot, skipped over the toe, and arrived in Palermo, Sicily, by plane, boat, train, bus, and auto. Countries from as far away as Australia, Finland, Chile, Brazil, and the United States were represented at the World Underwater Fishing Championships of 1960.

The usual last - minute excitement and the hustle and bustle of final preparations prevailed the entire week prior to the competition. Some of the teams had arrived as much as two weeks previously, but were not allowed to dive in the contest area during this time. These divers spent their time "training vigorously" at various areas along the Sicilian coastline and enjoying the climate and the fascinating and picturesque scenery of this historic island.

On the 18th of August, all of the competitors (three on each team and one reserve) gathered at the Hotel Sole in Palermo, and in due time were checked into their respective rooms.

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Palermo, Sicily's principal port and capital, lies along a bay surrounded by Mt. Pellegrino and Mt. Catalfano, at the top of the luxuriant "Conca d'Oro" (Golden Basin). Of Phoenician origin, the city was once a Carthaginian and later a Roman capital. After that, it lived through a period of singular prosperity under the Arabs (Ninth Century) and again under the Norman kings and Frederick II. The influence of these reigns is found everywhere. The splendid Arab-Norman monuments and Renaissance and Baroque buildings lend a unique charm to this varied and unusual city.

On the 19th of August the team captains met at the Regional Government Palace with the President, after having met the Mayor of Palermo earlier in the day. That evening a remarkably impressive ceremony was held in the Politeama Place with the raising of each country's flag, the playing of the national anthems, and the presentation of the different teams. This ceremony took place after a parade of the 19 competing nations up the Via Liberta, which was lined with thousands of cheering spectators.

On the 20th of August, those competitors who wished to visit the diving area were allowed to do so and were taken by boat to the Island of Ustica. Some of the divers remained in Palermo, however, in order to be as rested as possible for the competition of the following day.

This year, no more ideal location for the championships could have been



The world's three top spearfishermen. (Center) Champion Bruno Hermanny of Brazil, (L) 2nd place Claudio Ripa of Italy, (R) 3rd place Don Del Monico of the U.S.A.



Miss Armandie presents the first place Italian team with their trophies. (L to R) Alessandro Olschki, Ruggero Jannuzzi and Claudio Ripa.



English, Greek and Yugoslavian teams arriving at the Plaza of the Politeama Place. Nineteen nations were represented. After the teams were assembled the flag of each country was raised by a team member while a brass band played the anthems.

er 1960



Diver kicks to the surface with a good sized grouper. Picture was taken in the waters around the liste of Vulcano during the first day of the competitions.



(Above) Italian diver Jannuzzi working some of the deep holes — which paid dividends, placing him fourth among the 57 divers.

Del Wren, one-legged diver from the U.S.A., descends on one of his "long" slow dives. During the competitions he was clocked on several working dives of 60 to 80 feet and most averaged 1 min. 30 sec. to over 2 min.



chosen than the beautiful Eolien Islands of Lipari, Vulcano and Ustica, off the coast of Sicily. The magnificent ship "Caralis" of the Tirenia line carried the 600 participants and spectators alike to their destination—a two-day competition consisting of a total of 11 hours. For a ship-based competition with many small rowboats and motor-driven "mother" boats to take the divers to their destinations, this was run exceptionally well. With a few minor adjustments the schedule was well-followed.

The major credit must be given to Prof. Luigi Ferraro, Dott. Francesco Santoro, and Carlo Manstretta of the Organizing Committee for the success of this phase of the competition. The names of all those responsible for the success of the World Underwater Fishing Championships of 1960 are too numerous to credit each one; but the Federazione Italiana della Pesca Sportiva, the C.M.A.S. (World Confederation of Underwater Activities), the Mayor and the City of Palermo. and many, many others were responsible for a not-to-be-forgotten time by all the participants and spectators of this

The morning of August 21 dawned clear and sunny, and the participants left the "Caralis" at 8:00 a.m. for the shore of the Island of Lipari where they were transferred to their individual boats. The duration of the first day's competition was five hours, with a six-hour competition the following day. The Mediterranean was calm and warm on the surface but had currents and a thermocline at the depth which the men were required to dive.

The end of the first day found four countries leading, Brazil, U.S.A., Italy, and Spain. The top individuals were Hermanny, Brazil; Del Monico, U.S.A.; Jannuzzi, Italy. What would the final results be? The air was full of excitement and speculation as the divers retired early for the following day's contest.

The "Caralis" cruised around the romantic islands of Lipari, Vulcano, and Stromboli that evening and the following morning found her safe at anchor just offshore the Island of Ustica.

The second day dawned as beautiful as the first and the sea seemed even more calm. The starting time was delayed somewhat due to the shortage of motor-driven "mother" boats, but by 9:30 a.m. the problems had been ironed out and the schedule was again followed. At the end of this competi-

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Eolien d Ustica, gnificent line card specta--a twoa total of competioats and s to take ons, this ith a few dule was

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Spanish Diver Jose Noguera with one of his large grouper—placed fifth among the 57 competitors.

Federazione Italiana Della Pesca Sportiva-Roma Championnat de Monde de Chasse Sous-Marine (Coni-CMAS)

Palermo — 1960

INDIVIDUAL PLACEMENT	49-Federico Schaeffer, Chile. 1.115
Place-Diver-Nation Points	50-Georg Arends, Holland800
1-Bruno Hermanny, Brazil. 47.320	NATION PLACEMENTS
2-Claudio Ripa, Italy46,565	
3-Don Del Monico, U.S.A41.750	First place, ITALY — 118.430
4-Ruggero Jannuzzi, Italy41.255	points: Claurio Ripa, Ruggero Jan-
5-Jose Noguera, Spain39.385	nuzzi, Alessandro Olschki,
6-Bernardo Marti, Spain38.370	Second place, SPAIN - 101.860
7-Nate Stakula,	points: Bernardo Marti, Mateo Dolz,
Yugoslavia34.068	Jose Noguera.
Yugoslavia	Third Place, UNITED STATES-
9—Alessandro Olschki, Italy.30.610	100.075 points: Don Del Monico,
10-Wichler Pirotta, Malta29.860	Terry Lentz, Del Wren. Fourth place, BRAZIL — 84.015
11-Eddj Falzon, Malta28.505	points: Abel Gazio, Bruno Her-
12-Del Wren, U.S.A25.050	manny, Joso Neto.
13-Tony Patrone, France24.315	Fifth place, MALTA — 81.215
14-Mateo Dolz, Spain24.105	points: Edward Arrigo, Eddj Fal-
15—Joao Neto, Brazil23.930	zon. Wichler Pirotta.
16-Armando Matko,	Sixth place, FRANCE - 52.850
Switzerland23.405	points: Tony Petrone, Robert But-
17-Robert Buffaz, France22.875	faz, Jacques Tassy.
18-Edward Arrigo, Malta22.850	Seventh place, GREECE-49.980
19-Ben Cropp, Australia22.320	points: Teocratis Sarkopoulous, Fhi-
20-George Markenzinis,	dias Nounessis, George Markezinis.
Greece	Eighth place, YUGOSLAVIA-
21—Dallas Field, Australia19.490	48.525 points: Nate Stakula, Cilio
22—Gerard Guignet, Monaco., 16.545	Luksa, Petar Dabelio.
23—Teocratis Sarkopoulous,	Ninth place, AUSTRALIA-44.
Greece	820 points: Ben Cropp, Dallas
25—Brillowsoki, Morocco13.800	Field, John Macintosh.
26—Fhidias Nounessis.	Tenth place, MONACO-29.480 points: Andre Benedetti, Ange
Crosses Nouneasis,	points: Andre Benedetti, Ange
Greece	Boero, Gerard Guignet.
	Eleventh place, SWITZERLAND
England	-29.445 points: Jules Wecker, Hel-
29—Jak Wright, England10.490	muth Schmidhauser, Armando
30-Ange Boero, Monaco 9.000	Matko.
31—Petar Dabelio.	Twelfth place, PORTUGAL -
Yugoslavia 7.740	25.590 points: Vierra Braga, An-
32-Antonio Gil, Portugal, 7.705	tonio Gil, Negrao.
83-Schoemaker Hnck,	Thirteenth place, MOROCCO-
'Holland 7.355	25.500 points: Brillowsoki, Jose
34-Jose Clatajoud, Morocco. 6.830	Clatajoud, Riffy.
85—Cilio Luksa, Yugoslavia 6.720	Fourteenth place, GREAT BRI- TIAN-24.185 points; Derrick Ba- hinam, Jack Wright, Robert Stev-
36-Axel Schmidt, Chile 5.715	TIAN-24.185 points; Derrick Ba-
36—Axel Schmidt, Chile 5.715 37—Jacques Tassy, France 5.360	ens.
38—Riffy, Morocco 4.870 39—Jules Wecker,	
39-Jules Wecker.	Fifteenth place, HOLLAND -
Switzerland 4.540	11.260 points: Schoemaker Hnck
Switzerland 4.540 40—Andre Benedetti, Monaco. 3.935	Bernard Kruisen, Georg Arends.
41-Negrao, Portugal 3.170	Sixteenth place, CHILE - 8.030
42-Bernard Kruisen,	points: Federico Schaeffer, Axel
Holland 3.105	Schmidt, Falconeri Munizaga,
43—John Macintosh,	Seventeenth place, LIBYA-4.280
Australia	points: Bresc Taufick, Eduardo Bat-
44-Jacques Mavet, Belgium. 2.925	taglia, Leonardo Menghi.
45-Totterstrom, Finland 2.910	Eighteenth place, BELGIUM — 2.928 points: Joseph Lizin, Leonard
46—Bresc Taufick, Libya 2.490	Hopey Laguer Mayet
47—Eduardo Battaglia,	Henry, Jacques Mavet.
Libya 1.790	Nineteenth place, FINLAND -
48-Helmuth Schmidhauser,	2.910 points: Totterstrom, Leitila
Switzerland 1.500	Niilo, Rolf Linostrom.

-Federico Schaeffer, Chile, 1.115 -Georg Arends, Holland... .800

Press and photograraphers' boat gesfinal briefing along
with the contestants
prior to start of the
second day's competitions. (Seated)
Renate Falangola of
Mondo Sommerso,
the Italian underwater magazine.
(Standing with
Camera) Victor De
Sanclis, well-known
European diver and
underwater cameraman.

tion, as the small boats reached the "Caralis," it was difficult to guess which team might be the leading one. Almost every boat held one or more cernia (grouper).

The excitement reached a fever pitch as the weighing progressed. Finally the results were tallied and the winner was announced - the new Spearfishing Champion of the World -Bruno Hermanny of Brazil! The past two championships have found Bruno listed in the top six divers of the world, another indicator of his worthiness as the new World Champion.

Early the morning of August 23 the "Caralis" again docked in Palermo, and that evening an elaborate banquet was given at the beautiful Palace Hotel in Mondello Beach in honor of the winners and participants of the competition.

News Current

NEWS FROM AROUND THE GLOBE COMPILED AND EDITED IN SKIN DIVER OFFICES. Local diving news from readers welcomed.

LOS ANGELES, CALIFORNIA-Mary Huber Anderson, former national swimming competitor, has settled for an undisclosed amount her \$75,000 damage suit for injuries sustained when she was struck by the propeller of a motor cruiser off Santa Catalina Island on September 27, 1958. Mrs. Anderson had just submerged in a skin diving operation beside the 50 ft. Aguam when the motor started. Her left arm was cut and broken in two places.

PITTSBURGH, PENNSYLVANIA-Robert E. Mitchell Ir. was awarded a Bronze Medal by the Carnegie Hero Fund Commission for saving two persons from drowning. Mitchell was on a skin diving vacation at Hollywood, Florida, when he pulled a 56-yearold man and a 13-year-old boy from the Atlantic. The two swimmers were swept by breakers into water over their heads Mitchell spotted their struggle and pulled them to shore.

GLOUCESTER, VIRGINIA—The Virginia Fisheries Laboratory is releasing 400 crabs every two weeks bearing red disks which it will redeem, if returned, at 25 cents each. The object is to learn more about the crabs' movements.

COLUMBUS, OHIO-The Ohio State Highway Patrol's Underwater Recovery Squad proved its effectiveness in August at the Ducat Quarry four miles south of Bowling Green when diver-patrolman Walter Howell of Findlay and Robert Russell of Fremont recovered a drowning victim in thirty-five feet of water in just five minutes time after entering the quarry. The twenty man squad, trained by Ben Holderness of U.S. Divers Company, completed their training in July and this was the first official dive since the organization of the squad.

JACKSONVILLE, FLORIDA—The Neptune Angels Diving Club Inc. has announced that one of the club's members, Paul Califanio, has been selected to work in the research and development department of Underwater Sports of Miami. Paul will be working with Jordan Klein on research and development of different types of diving equipment.

ST. CLOUD, MINNESOTA—When two convicts decided to "take a swim" in a flooded quarry located within the walls of the state reformatory here, not even their capture relieved worried warden Carl Jackson. He promptly called in Minneapolis YMCA Skin Divers Kent Daley, Chuck Hines and Dick Samelian to investigate. The trio found the water to be icy cold, the visibility almost nil and the quarry depth 40 feet. They eased the warden's mind, however, by reporting no hidden escape passages beneath the surface.

FAR ROCKAWAY, NEW YORK-Two skin divers while spearfishing off the beach at eighth street recovered the victim of a drowning the night before. Nassau police and New York police searched the area previous to the find by divers Roy Stella and Donald Blanks of Aqua-Land Skin Diving Shop. The victim drowned while at a beach party the night before and had been in the water about six hours.

a week . - street

CANADA LAKE, NEW YORK-A 50 passenger wood-burning steamship, the Kanaughta, has recently become the object of an intensive search by the Fulton County Skin Divers Association. The diving group hopes to solve the mystery surrounding the old vessel. Stories report it was destroyed in a 1914 fire and contradictory stories report it escaped the fire and was used in movie work for years after 1914.



YOKOTA AIR BASE, JAPAN—A/lc Ron Hudson, A/lc Lance Toomy and T/Sgt. Paul J. Cavinder received citations from Katsunosuke Nihira, Chief of the Ome Police Station, for their efforts in recovering a truck and its two occupants from the depths of Lake Okutama. This same team of divers has been called upon several times by the Japanese Diving Association and the Fisheries Commission to help survey abalone beds, fish nets and assist in salvage.

CALIFORNIA-Gary Cooper is considering an offer to allow his name to be used on a chain of skin diving equipment stores being built from coast to coast, according to newspaper columnist Sidney Skolsky.

ENGLAND-Mrs. Jane Baldasare, holder of the women's underwater endurance record, abandoned her attempt to swim the English Channel underwater when she was given an empty tank about four and half hours out of Cap Griz Nez, France. The New York diver plans to try again.

POINT ARGUELLO, CALIFORNIA-Harold Gnad has received the superior acomplishment award from Point Arguello Naval Missile Facility totaling \$350 for his acts of unusual courage which resulted in the salvaging of two target drones used in connection with missile launches from the facility. The two drones were valued at a cost of over \$25,000. The officials asnounced that the skin diving technique used in the recovery has been used successfully by others "resulting in a great savings to the government.'

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SKIN E

MONTREAL, CANADA—The stern section of a sunken freighter has been raised to the surface of the St. Lawrence River for the first major sign of progress since attempts to salvage the 800-ton Federal Express began several weeks prior. Divers ripped the stern section free with underwater blasting. The salvage work involving sixteen divers and more than fifty men is ahead of schedule and expected to be completed by November. The Federal Express which sank in May has turned the busy channel into a one-way passage with inbound ships forced to wait until outbound vessels have passed before moving to the piers. A huge deflector was built around the wreckage to turn aside the strong current and permit divers to work.

MELOS, GREECE—Diver Jim Thorne has joined Mathon Kyritsis in a search of the waters off the island of Melos for the arms of the famous Venus De Milo. When and if the statue's arms are located they will be turned over to the Athens Museum—the armless Venus is in France. Poor Venus looks as though she'll never be whole again. Legend has it that the whole statue was discovered on the island of Melos in 1820. A Frenchman saw the statue and decided to present it to Louis XVIII. However, the statue had already been sold to a priest from Constantinople. Venus was aboard a Greek ship when the French entered the harbor. Outnumbered, the Greeks lost the statue but had first broken off the arms and tossed them into the sea.

ROCKPORT, MAINE—Skin diver Harry Goodridge has settled the score with a shark for his old friend and skin diving companion. Basil. Basil, a three-month-old seal, was killed by the shark as he swam with Goodridge in Rockport Bay waters.

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NEAH BAY, WASHINGTON—While diving in the Straits of Juan de Fuca Turk Markishtum and Stan Peters speared what they thought was a large ling cod poking its head out from a ledge. The "cod" turned out to be an angry nine and half foot eel that gave both divers several bad minutes before they beated it.

NEWPORT, RHODE ISLAND—Scraps of a leather jacket, shreds of a sweater and a skeleton have been recovered from the sunken German U-boat off Block Island. The skeleton was the first recovered by skin diver Burton H. Mason and a group of colleagues of Sub-Marine Research Associates. Scattered bones had been recovered earlier. The divers reported the depth charge that sent the U-853 to the bottom, 127 feet down, apparently did not damage the escape device on the sub. The group plans to ship the remains of as many of the 55 crewen aboard the doomed vessel as 100 as possible back to Germany for burial.

TICONDEROGA, NEW YORK—Eight French muskets have been recovered from Lake George and are now on display at Fort Mt. Hope. The muskets, believed more than 200 years old, were discovered off Rogers Slide at a depth of fifty feet by Ken Bachman.

LONDON. ENGLAND—Skin divers came to the assistance of Princess Margaret and her new husband during their honeymoon reuise in the Caribbean on the royal yacht Britannia. The couple had almost gone swimming in shark-infested waters off Trinidad and Antigua. Eighteen of the sharks were trapped by skin divers before the couple went into the water. The princess's husband, Anthony Armstrong-Jones, went underwater to photograph the creatures.

HAWAII—A trio of sailors discovered a bomb while diving about a thousand yards off the beach. The bomb was turned over to the Navs's underwater demolition team who reported it was a Mark 26 mine bomb capable of blowing a four foot wall to bits.

BALTIMORE, MARYLAND—Members of the Martin Mantas visited Tangier Island for a dive on the historic hulk of the former U.S.S. Texas. The battleship, renamed the San Marcus, was sent to the bottom some 50 years ago by naval bombardment carried out by the late Gen. Billy Mitchell. The divers explored the hulk and found it the home of large sheepshead, a giant sea turtle.

BOSTON, MASSACHUSETTS—A party of fishermen inluding a Boston American newspaper columnist were assisted by diver jackie Rutledge in recovering a snagged fishing line. Rutledge was featured in the newsman's column for his Good Samaritan act.

TORONTO, ONTARIO, CANADA—A trio of divers will go to Red Lake in Northwestern Ontario to try to prove an engineer's hunch that underwater exploration can uncover ore fields easier than conventional drilling. Exploration several years ago indicated gold in an underwater reef of the lake 280 miles northwest of Port Arthur. Last year the reef was relocated and marked and the divers will be examining the area this year.



SOUTH PORTLAND, MAINE—Some of the most ingenious creations of modern man were displayed at the Northeastern States Exposition of Industrial Progress including the Navy's "Solaris," a robot hand with a television eye that can search out and retrieve objects weighing almost four tons in 2,000 feet of water. The operator aboard ship sees what the robot sees, on his TV screen, and directs its search from his control board. When the object is located the operator clamps the steel jaws and the robot brings it to the surface.

LOS ANGELES, CALIFORNIA—Nine-year-old Diane Mountford has obtained court approval of her contract with Liberty Enterprises Inc. She is one of the country's youngest professional skin divers and will play in a new television series, "Assignment: Underwater." She has already appeared in a water sequence in the movie "The Remarkable Mr. Pennypacker."

HENDERSONVILLE, NORTH CAROLINA—The Tarheel-Tank-Toters skin diving club was called to search for a lost boat propeller from Lake Summit. The prop was successfully recovered within fifteen minutes by divers Jack Carey, Danny Ray, Roger Gardner and Dan Ledbetter.

PASADENA, CALIFORNIA—Two small plastic discs have been designed by a retired Navy diver and commercial fisherman to ward off sharks. Chester E. Bowen claims the p.ercing sounds emitted when the silver-dollar-sized discs are clacked together frighten sharks and that they will leave the area immediately. Bowen plans to market the discs in the near future.

FORT KNOX, KENTUCKY—Diver Kenneth Shown put minister Aaron K. Farmer into the pulpit for his regular Sunday services when he recovered the minister's dentures from the depths of a lake at a church summer camp. Shown and other members of the Blue Grass Scuba Association were called by the congregation to recover the missing teeth.

LOUISIANA—Charles Rabin of Metaire has developed and patented a gadget that will enable a diver to skim through the water just by wiggling his elbows. The patented device is a pair of fins that are fastened to the—elbow. When the arms are straight the fins are closed and offer little water resistance. But when the elbows are bent and moved the fins make you swim like a fish, according to the inventor.

SAN FRANCISCO, CALIFORNIA — Five skin divers have added a 60 pound octopus with a 10 foot arm spread to the Steinhart Aquarium at Golden Gate Park. As the octopus was taken with the greatest care not to harm it, Dr. Earl Herald, curator, hopes the specimen will outlive the usual eight month's life expectancy of an octopus in captivity.

BEVERLY, MASSACHUSETTS—Commercial lobsterman and policeman Joseph Celentano has helped lessen east coast tension between divers and lobstermen... by becoming a diver. Celentano said catching lobster by hand is a wonderful sport—you always get more than you can eat, but it will never take over the lobster boat. Diving helps him as a commercial lobsterman in that it enables him to retrieve lobster gear, repair equipment or inspect the bottom of the boat.

SKIN DIVER—October 1960



To the old adage "Good things come in small packages," let's add, "and hide in pukas." Anyone who has dived extensively in Hawaiian waters will understand this coinage immediately—for the uniniated, some explanation is necessary. The small packages referred to are the many varieties of rock fish to be found off Hawaiian shores . . . pukas are holes. That, by the way, is what this article is about—holes, and the delectable morsels Hawaii's divers find fluttering around inside them.

Before sticking our heads into any holes for a diver's-eye view of their contents, perhaps a little more background is in order. The Hawaiian Islands are volcanically formed, which means that in spite of their lush surface greenery, they are, geologically, huge piles of lava. (This with apologies to the Hawaiian Chamber of Commerce.) Above the water level the lava presents an impressive, though austere, picture—looking somewhat like the backdrop for a King Kong movie. Beneath the sea, however, the lava's rug-

ged surface is enlivened with a myriad of marine organisms. Sea urchins and bits of coral add their varied splashes of color to the azure-tinted scene.

At the point where the laval mass slopes into the sand bottom, the ree starts. Hawaii's waters are riddled with coral reefs; the islands are more or less surrounded with an irregular ring of coral. The razor-sharp reef and equally sharp lava are at once the diver' worst enemies and greatest assets. Every diverhere has a healthy respect for even small surf when he's diving around a section of the reef, but the sharp coral and lava beds have their compensations. They are just honeycombed with holes and small caves that are a spearfisherman's dream. In water from five to 30 feet deep, a diver can quickly procure a meal to please the most discriminating taste.

Let's take a dive—say off Makua, near Kaena Point on the leeward side of the island of Oahu.

As you pick your way down the rock-strewn shoreline you're looking for a logical entry spot, and finally choose a narrow shelf with a reasonably unobstructed access to the water. A last-minute check of equipment and in you go. A school of horned kala (unicorn fish) drift slowly away as you



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Above—Sturdevant and Mike Meriwether making hurried exit from wave battered shore of Makepuu Paint, Oahu.

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Deep, blue water fish is this 50 pound Ulua speored by (I. to r.) Mel Carr, Jr., and Gordon Freund. The Ulua is the largest game fish available in spearfishing waters in Hawaii.

enter. You swim hard, trying to get some depth under you before the next good-sized wave turns into white water around your ears. In about fifteen feet of water, a puka (that's a hole, remember) about two feet in diameter catches your eye. You cock your gun, rulp some air and dive. Your gloved and grabs the side of the hole and you take a cautious look at the sides, top and bottom of the opening before thresting your head inside. Eels are ommon in Hawaiian waters and cauon is a must. No eel in sight, so you ake a good look. A ghostly red shape with a huge black eye glows from the back of the hole. You shoot from omewhere near your ear. Got him! You smile and end up with about a half inch of water in your mask. You grab the end of the spear quickly . . even a small fish poorly speared will ear loose, given ample time. As you all him from the hole, you stop worryg-a gill shot. It's an aweoweo (proounced ah-VAY-oh-VAY-oh), one of e many varieties of red fish found in lawaiian waters, and just about the stiest. Like most rock fish, it seldom weighs over a pound and a half, but it's all meat . . . firm, white flesh with delicately sweet flavor. Cleaning this

fish is ridiculously simple — no scales and a compact interior; takes about 20 seconds.

You string the fish, fasten the stringer to your anchored inner tube, cock your gun and dive again. You try the same hole, figuring that your finny friend may have had a roommate or two. As your eyes get accustomed to the dark interior, you see a pair of malevolent looking eyes glaring from the side of the hole—there was a moray in there! You withdraw rather ungracefully, reflecting on how you stuck your arm in the hole to grab your spear a few minutes before.

As you surface, you see one of your fellow divers at the inner tube, stringing a small silver fish—an aholehole (pronounced ah-HO-lay-HO-lay). A good food fish, the aholehole has firm flesh with a slightly fishy flavor.

A rock ledge to your left looks promising. As you dive, a big uhu (pronounced oo-hoo), or parrot fish, nuzzles his way around the base of a rock and disappears. You ignore the tempting target and head for the ledge. The opening is large enough to admit your shoulders, so you take a good look. The back of the cave slopes gently out of sight . . . easy place to get a spear

stuck. The half-light reveals a lobster clinging to the roof of the hole—too bad it's not open season; you make a mental note to come back when it is. As you're wriggling your way out of the cave, a big breaker passes overhead, slapping you unceremoniously against the sharp edge of the opening. Oh, well, what's one more cut among the dozens you have now.

A few more dives net a nearlyunblemished cowry shell and two nicesized squirrel fish, or menpachi. Highly prized by the Hawaiians as a food fish, this flat red fellow has large soft scales and is easily cleaned. Its natural curiousity makes it a fairly easy target, if you can find him.

As you string your catch, you see that your companions have had equally good luck. Two large kumu (pronounced koo-moo) bulge conspicuously on the stringer. A larger fish than the aweoweo, aholehole or menpachi, the kumu is a softer-fleshed but less tasty member of the red fish group. He appears to have red and white stripes running the length of his body, but is nearly solid red in color when speared.

A quick count tells you that you have nearly enough fish for a good meal . . .

(Continued on Page 45)

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CRAYS, KINGIES and JOHN DORSIES

F or YEARS New Zealand as described in the fishing books and motion pictures of Zane Gray has intrigued me as an area with great potential for the underwater spearfisherman.

Thanks to a four-day layover in Auckland, the opportunity came to do some diving in New Zealand. Fortunately, I had several underwater-fishing friends locally, some of whom I had known previously in Fiji. Arriving in New Zealand on the long Easter week-

By JIM OETZEL

end, meant that everyone was able to get away for a diving trip.

A group of the local divers, Errol Wilkinson, Pete Spinetto, and Marv... met me at the airport, and arrangements were made to start from Wilkinson's place in Whrangerei the following morning. Whrangerei is 100 miles

Kingfish, the popula game fish of New Zea land waters. This spec men weighed 45 pound and was speared b Taffy Hook.

north of Auckland, and just south of the Bay of Islands made famous to the rod and reel fisherman by Zane Grey. It was a very beautiful drive with roll. ing green hills and beautiful coves and beaches of the east coastline of New Zealand. The weather was clear and sunny in Auckland, but by the time we arrived in Whrangerei it was raining and this condition continued through the following morning. Pete Spinetto Mary, and his wife joined Errol, his brother Keith, and myself, in the drive to the "Heads" of beautiful Paua Bay, where the boat was beached in sheltered cove.

The plan was to go to Danger Rock, a pinnacle off the coast which is a favorite spot for kingfish. The kingfish, a member of the jack family, carangidae (Regificala grandis) is a twin to the Pacific Yellowtail, but somewhat larger. The New Zealand record speared is 85 pounds, a fine fish in any league. The open sea was rough, but seemed worth a try. However, once beyond the mouth of the cove, in the open sea, it was very rough, and with wind and rain, discretion was in order, so the boat turned back.

The boat used was owned by the Wilkinson brothers of Whrangerei who constituted the eagerest spearfishermen in the area. They had systematically explored the coast line for miles in all directions and knew much about it, including the history. The beach at one end of the cove was the scene of a famous Maori battle, and recently Keith Wilkinson had found a greenstone Maori axehead there. We tried a little beachcombing ourselves, but gave up quickly because of the rain and cold.

On the next day, a different trip was planned. A launch had been chartered which was large enough for several clubs. The New Plymouth Club located on the west side of the island joined the Whrangerei Club.

We proceeded to a group of small islands situated off the coast, called the Hen and Chicks. The swells were still moving in, but the wind had gone down. As we moved away from the shore, the water became the blue of the open sea, which encouraged every one. It seemed like a trip to Catalina, with the typical heap of rubber suits and wool long johns, the arguments about various features of equipment, spearheads, types of rubbers used on guns. The local divers all used rubber guns similar in principle to U.S. equip ment, with the accompanying problems of broken rubbers, wishbones, and

Because of the freedom from tall heavy kelp, they prefer to use reels of their spear guns to play the fish. No one used a float system, but a number of

SKIN DIVER-October 1960

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divers indicated interest in my float arrangement, so perhaps some may try it in the future.

The "Hen" of this group of islands is big enough to provide flat sheltered water on the lee side. The islands are a few miles out to sea. Knowing that rod and reel fishermen catch large make shark close by, I asked whether divers were bothered by sharks, but they all said no. However, Keith showed me a picture of what happened to a couple of kingfish he had hanging over the side of the boat. According to these mutilated indications, the threat of sharks exists.

In spite of the overcast, underwater visibility was about 50 feet, and the bottom was covered from the tide mark to about a 40 foot depth with a kelp growth which is very similar to one seen on the California coast. It has a thick stalk which grows upright to about 2½ feet, and the top resembles a brownish palm tree. This a very tough variety of kelp, as I was to find out later.

Not knowing the habits of the New Zealand fish, it was a problem to locate anything for some time, but gradually llearned to spot them. The fish moved in or just above the dark kelp, which made it very difficult to see them. Later in the wash about some rocky points, I encountered schools of drummers Kyposidae family) up to about eight pounds. Just above the kelp, several snappers (Chrysophrys guttulatus) swam by. Small schools of bait were in the currents around the points. This looked like the place for kingfish. My hunch paid off: several handsome fish, 30 to 40 pounds, went by, but surprisingly, they came from the shallow water behind me, rather than from the ocean side. After this lesson, I began to watch in all directions, and later I spotted several more beauties. This time I was ready. Diving, I hit one beauty, which took off in a circle, scrap-



The result of leaving two large Kingfish hanging over the side of the boat. Keith Wilkinson, New Zealand.



"Pack Horse" of the crayfish in New Zealand is very similar to the California spiny lobster.

ing among the kelp, finally twisting around and around a clump of kelp. The hit had been too high, a bad shot. Meanwhile, the other divers took off after the other "kingies" that milled in the area. Their method is to let the first fish hit mill around, which will bring in others. One fellow hit a large one, about 50 pounds, which pulled off. While he was loading his gun, I could take another shot at my crippled kingie. Errol was attempting to untangle the line when my kingie got off.

Back to the struggle—several more came by, and I managed to hit another small one, only to have it pull off as well.

Noticing a couple of the divers ashore on some rocks, unhooking something, I swam over in their direction. On the way, in about five feet of water, a large kingie went under me, with a large tear in the side. I was so startled to see this fish that I fired too quickly and missed. As it turned out, just after Errol Wilkinson unhooked his kingie on the rocks, the fish flipped away into the water and passed under me as I swam ashore. The fish went under a rock, so I had a look. This turned out to have been a tunnel, and he was gone. but I saw a couple of very nice lobsters, or "crays", about five pounds. This was too much to resist, after losing the kingies, so I grabbed one without gloves, suffering the consequences, but I had to have a trophy.

In New Zealand, they have two species of lobster or crayfish, Jasus hugelis and Jasus lalandii. Both get quite large, in fact they call the larger one (Jasus hugelii) "pack horses" because of the large protruberance on the thorax of the older specimens. Keith Wilkinson has a 17½ pound lobster mounted: $21\frac{1}{2}$ " girth, 22" length.

In spite of the weather, which continued stormy, and the many lost fish, it was far from a bad day. One large rav was landed, one 45 pound kingie, a half dozen crays, and an assortment of snappers, drummers, John Dorsies (Zeus fabus), and other types. Later, when comparing the habits of the New Zealand crays to those in California, I found that they are not as "spooky. For example, if they find a crack with 20 or so in it, they can get them all out with repeated dives. Unlike ours, their crays stay put till collected-very nice of them. Fortunately, these waters are so plentifully supplied with sea life that there is no need for restrictions on catches.

The hospitality and warm esprit d'corp of the Kiwi underwater spear-fisherman is unsurpassed. I'm hoping to return soon to collect one of those king-size kingies, or big crays, pack-saddle variety.



Graceful damsel fish in horn coral.

DIVING THE PHILIPPINES

By E. D. HARRIS

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Pick up any book on Mollusks (shells) and you will find the Philippines listed more often under "Where Found" than any other location.

There are 7.109 islands in the Republic of the Philippines, and all but 462 have less than one mile of square area. The Islands range all the way from near the equator by Borneo north to within 100 miles of Formosa. The temperature of most of the water around the islands is about 80 degrees

There is an abundance of fine skin diving around the Philippines but the one large city, Manila, and the U.S. Military bases are not situated too close to the best locations. The cities of the major islands and the Naval Bases are all located where large rivers empty into the sea and you have to travel away from these places to find clear water. The Filipinos do some diving for fishing and pearl hunting, but most of their fishing is done from boats with nets, usually at night. The fish are attracted into the nets with lanterns.

American military personnel stationed at Clark Field, Sangley Point, and Subic Bay number several thousand and among these are a number of skin divers. A few of these have scuba equipment but most have only snorkels, flippers and face mask. Clark Field is about fifty miles from salt water, Subic and Sangley are on the bays of Subic and Manila. Water in these large bays has a visibility along the swimming beaches of about twenty feet. At their entrances the water is much clearer but hard to get to without a boat. Water out around the small islands off Luzon is very clear and more life is found.

During the war many of the Filipinos became acquainted with explosives and since then have killed off most of the big fish around the coasts by dynamiting all the schools they find. The fact that it is illegal doesn't stop it at all, for patrol boats are very rare. Occasionally you see a one armed native who failed to throw the dynamite quick enough. Very short fuses are used for they want it to explode just as it hits the water before the school scatters.

A few of the Filipinos have American or European style equipment, most of it given to them by Americans who go diving with them and borrow their boats. Equipment in Manila is expensive. It costs about twenty dollars for

a face mask and thirty-five dollars for flippers. Native divers make or buy the Japanese style of glass-with-woodenframe goggles. Flippers are seldon used and they don't like snorkels. Small fish are speared with home made guns. These are carved out of wood, use inner tube rubber for power and have spears made from welding rods. The favorite fish of the islands is the Laupu-Laupu, a 15 pound sea bass. Mollusks are also used for food, the tubin, tritons, tops, and clams being common.

Americans stationed or working in the islands obtain their scuba equipment by mail order or from the PX Occasionally there is a diver with a compressor but most tanks are filled

(Continued on Page 44)



Large island sea

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MAJURO

By BOB SELTON
and ART KOWNSLAR

re seldon kels. Small nade guns. B Atoll, Marshall Islands, composed od, use inand have of members of the United States rods. The Armed Forces stationed in the central he Laupu-Pacific Ocean, had long been planning . Mollusks diving trip to another atoll of this tubin, tri-Pacific area. Although diving condicommon. tions here in our own lagoon are conworking in sidered among the best in the world ba equip-(see page 32, August, 1959, issue of "Skin Diver Magazine"), our natural desire for "greener grass" led us to a n the PX. er with a are filled long search for another area with equally ideal conditions. Since our transportation is limited to aircraft, any chosen destination required a suitable landing strip. After much deliberation we finally decided on Majuro Atoll near the southeast end of the Radak chain of the Marshall Islands, approximately half way between Ha-

waii and New Guinea.

We loaded the plane with eager hands at dawn, and as we took off in the first rays of the sun we could see the telltale light green shades of the toral heads jutting from the blue depths of Eniwetok Lagoon. One could not help but wonder what adventures and sights Majuro Lagoon offered strangers in her depths, particularly in the way of sharks and barracuda, as this lagoon is virgin territory for scubatives. Our plane was scheduled for an intermediate stop at Kwajalein Atoll, the world's largest atoll.

The final leg of the trip passed uncentfully except for the increasing overcast, and as we approached Majuro, it was apparent that we were in for an afternoon of tropical rainstorms. Despite the overcast the islands of the atoll formed a definite dark green chain around a brilliantly blue hued lagoon. Never had we seen such luxuriant foliage.

Puncturing the deep blue of the lagoon were myriads of coral heads, each shading through light blue, green and finally light green as the center of the heads reached up to twenty or thirty feet. One large coral head in the center of the lagoon overshadowed all the rest both in size and in depth contrast. We decided then and there to make our scuba dive in that vicinity. Our first impression was one of disbelief that such a diver's paradise could exist.

Most of the Bluefins, after settling into the accommodations of the hotel, spent the afternoon wandering around the villages enjoying the scenery. However, one group could not stay out of the lagoon even though it was raining. These hearty lads spent the afternoon skin diving and would have come back with a large collection of Trochus shells, but discovered as they were about to leave the water that the Trochus shell was out of season for the Marshallese. The islanders harvest the Trochus during definite and established season for the harvest, much as we have hunting seasons back home. In deference to Trust Territory Laws, our band of skin diving shell hunters about faced and proceeded to plant a bed of Trochus some hundred yards

off shore. This will undoubtedly remain the only instance where Bluefins have planted a shell bed instead of harvesting one.

That evening there was a dinner party given by the American community for the visiting group at the Coconut Rendezvous Club. During the party we discovered that some of the better shells could be taken on the lagoon floor at night.

A group of our more ardent shell collectors decided to go skin diving and check out the shell population. The night was very cloudy, adding to the darkness, but the four large underwater spotlights stabbed to a depth of about twenty-five feet and illuminated the lagoon floor sufficiently to spot the shells by species. As the water became deeper it was necessary to surface dive to enable the lights to pierce through to the bottom. Eerie forms of sea life such as grotesque crab and lobster, not normally seen during the daytime, appeared from the coral heads. Many fish appeared in the outer periphery of our lights but were hesitant to allow themselves to be pinpointed. We took some comfort from the statement made by the local divers that sharks would not come into the light, as we saw several large indistinguishable forms lurking in the distance.

A nice group of shells were taken including Bishops' Miters (Mitra Episcopalis), Marble Cones (Conus Marmoreus), Leopard or Alphabet cones (Conus Litteratus), Fingershells (Lambis Trucata), Murex, Coweries; Tiger, Arabian and Mauritian (Cypraea Tigris, Arabica, and Muritiana). No luminous fish appeared but we noticed several prawntype creatures whose eyes reflected a bright red beam from our lights. With the spotlights extinguished, the water proved phosphorescent and each movement of arms and legs was accompanied by swirling flecks of blue luminescence. The bottom appeared pale-grey with the coral heads showing black. We did not remain long with the spotlights extinguished, as reason indicated that perhaps some other creature could see better than

Sunday morning, dawned bright and clear. After church and a fine breakfast, we loaded our equipment on the converted "M" boat that the Acting District Administrator had been kind enough to place at our disposal. The Marshallese crew seemed as eager to get underway as the Bluefins, for they had never seen scuba gear used before and were anxious to see what it was all about.

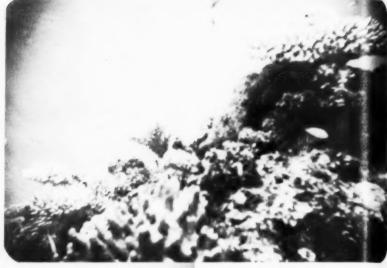
One gathered that the islanders did (Continued on Next Page)

ber 1960

MAJURO

(Continued from Page 21)

Deadly "Lionfish" shortly after being speared was still danger-ous as the spines carry poison.





not dive very much for pleasure and that their interest in shells was limited to the Trochus fields which were planted in fairly shallow water. A few of them appeared to be spearfishing, but judging by participation at Majuro, the sport certainly is not as widespread as one is led to believe by the movies. We were informed that Marshallese are fine swimmers and divers but they do it only for a definite purpose, not

The boat crew spoke very little English, but our description of the type areas we wanted to find were acknowledged with enthusiam and we were underway in one of the most beautiful lagoons in the world. The farther we traveled from the main island the more picturesque and primeval the islanders and their villages became. The more remote islands still have huts made entirely of local foliage used as thatch and bread fruit studding and rafters, which would do justice to the native huts so classically featured in National Geographic Magazine.

About an hour out we reached our first diving area—a sandy stretch of

gently sloping beach about 150 yards off shore from a small but inhabited island. The water depth here was 25 feet with a sharply sloping drop off to about 50 feet. Past experience had taught us to search just such a slope for the much coveted Helmet Shell (Cassis Cornuta). In addition to the ideal slope, the shallower water was punctuated with myriad small coral heads which made the area ideal for skin

The boat crew indicated that they could not anchor here, but would pick us up in one hour. Twenty eager men were over the side in less than a minute, their shell bags soon bulging to capacity. Some of the group had taken as many as nine helmet shells on this one stretch of bottom, and many other varieties of shells were found among the coral heads. The lure of the village on the nearby island attracted some of our group after they had taken their share of shells, and they returned laden not only with shells but with coconuts.

An unexpected incident occured when the boat crew arrived at the prearranged time for our pick-up. It has been previously mentioned that the crew had never seen scuba equipment used before and also that they could not anchor here. At pick-up time, it became obvious that they had seen Hollywood movies on Navy Underwater Demolition Teams and had concluded that we must be picked up on a fast pass, for at the given signal the boat turned in toward us at maximum speed with the crew rapidly throwing ropes over both sides. After a frantic mo ment or two we got the boat stopped and climbed aboard via the more conservative ladder on the side.

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Another hour's trip brought us to the coral head we had selected for our scuba dive. Diving partner assignments were made while each man checked his equipment thoroughly. Our aerial reconnaissance and choice of the coral head were verified as we approached it. It was about twenty feet deep at its uppermost pinnacle and dropped off gradually to a sandy lagoon floor at a depth of 120 feet. The water was crys tal clear. After the boat was securely anchored to the coral head, our diving teams went over the side.

The top and sides of the head were covered with living sponge-colored brain coral, interspersed with all forms of brillantly hued reindeer and flame coral and countless heads of mushroom coral. This mass of coral gave shelter to infinite numbers of bright,

exotic tropical fish.

Here also was a family of what is probably the most beautiful fish in tropical waters, the gorgeous red Lionfish, also called the Turkeyfish. Although beautiful in appearance the featherlike spines on his back and sides can inject deadly toxic venom on contact with an unwary diver.

Two teams with double tank blocks depth gauges, wrist watches and de-



"Tamure," the unbelievable hula specialty of the Tahiti dancing girls, is the island's main attraction.

compression tables worked around the bottom of the coral head on the sandy bottom at 120 feet, while the remaining eight teams utilizing single tank blocks worked the coral head at depths varying from fifty to ninety feet. Several teams carried spear guns and intended to spear some of the large grouper that are usually found in these coral formations, but the appearance of an eight foot grey shark recalled the dub rule that fish will not be speared when sharks are known or suspected to be in the area. This undoubtedly saved several fish from an early demise as a family of large grouper was found at about 70 feet, the largest of which probably weighed 125 pounds. The grey shark did not deter our enthusiasm to continue the dive, as we are accus-

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tomed to the presence of this species in the Eniwetok lagoon. Although we treat sharks with respect and keep our eyes on them, we have not yet been the objects of any offensive action. Visibility even at 120 feet remained perfect throughout the dive.

One team was primarily interested in underwater photography and spent the dive experimenting with new underwater cameras they had recently purchased. As the teams with double tanks started back up past the shallower teams to start their decompression, we realized that our dive was rapidly coming to an end.

Back on board the boat all agreed that this had been one of our most interesting dives. By now we had been out for over four hours, but all enthusiastically decided on one more stop for skin diving. Continuing up the lagoon for another half hour, we found another area similiar to the first and, if possible, an area that looked even better from the shell collectors' point of view. The same shallow coral formations in 20-25 feet. A large number of helmet shells were taken as well as other varieties.

Many of the diving teams suspended all other operations to watch one team experiment with a Moray Eel Catcher (Patent not Pending). This

instrument was (and the word "was," is used advisedly) about five feet long with a wire loop passing through. One end of the wire was welded to the tube, the other was fastened to a wooden handle. The operator simply pushed the wooden handle to form a loop and pulled it to tighten the noose around the unsuspecting eel. Needless to say no large morays were taken, although on two occasions they managed to pull the instrument down into their coralhead home and bend it up a bit before the operator was able to make a recovery. To add insult to injury, one baby moray was captured by means of a simple pair of heavy work gloves.

As our time neared its appointed end, most of the divers swam into shore to gather coconuts for the return vovage. So many went ashore that the boat crew decided to beach the boat (a converted landing craft) and join in the coconut collecting. Several of the younger Bluefins attempted to climb the tall trunks of the coconut trees in the traditional island fashion, but several near-falls reduced them to watching the Marshallese perform this difficult feat. As we gathered back on the boat to start our return trip to the airfield a quick survery revealed that our divers had collected 72 helmet shells, a new club record for the Bluefins.



The Bluefin Club adopted this remora during their visit to Majuro...it would attach to the scuba tanks.

SKIN DIVER-October 1960

TROPICAL SPEARFISHING

By PHILIP SMITH

(from "Spearfishing Sportlight")

Thuge turtle suddenly flippered away in a tremendous burst of speed. Further out a school of golden trevally leaped from the water in a frenzied flurry. A huge black shape, drifted, rather than swam, over the sandy sea bed toward the shore line of broken limestone reef-flat.

On shore our cries of "Shark!" soon turned to "Groper!" and several pairs of feet performed a record 200 yard dash

to the "Blitz" to bring back spearfishing gear.

Then followed a period of complete confusion. Three spearmen, each trying to be the first in the water "to have a crack" at the monster, hastily donned gear, cheered on by the cries from their four mates standing on the cliff top. One, ready for the plunge, raced out over the flat reef top only to remember that he had left his spear gun sitting on the shore. Another gave a cry of disgust as he found that both his face plates had been broken in the long rough ride to this part of the N-W Cape.

By now the giant groper was cruising along the edge of the reef in four feet of water. Brian Mack, the only spearman left in the race, lowered himself over the edge of the reef, dived and waited for the huge beast to approach. He did not have to wait long. The immense fish, the depth of its black body spanning the depth of the water kept coming until it was within inches of the spearman's spear. The shot

crashed home between the two saucer-like eyes.

From the cliffs we saw Brian become a human aquaplane as he was rapidly towed out to sea by his "catch." However, he managed to turn his fish and seemed to have it under control, when with a writhing twist, the groper stood on its head, throwing its huge fan tail out of the water and in the process snapped the mild steel spear at the thread. After a second's pause, the leviathan sped away into deeper water. A minute later a huge black ten foot shark swam into the battle area making pursuit impossible.

This was our first encounter with a Queensland Groper in waters 800 miles north of Perth and proved to be one

of our more exciting incidents.

Our trip to the tropics started when Peter Mack and his brother Brian ("Happy") and myself set out in Brian's Ford Prefect to make the 600 mile first stage trek to Carnarvon. We found the roads in excellent condition and despite a long pause in Geraldton, where we met with various local spearmen for a chat, we eventually reached Carnarvon, despite the lack of brakes, 21 hours after setting out. The last 120 miles traveling over perfect bitumen highway.

At Carnarvon we teamed up with four other spearmen, Ray De Vis of Northampton and Ron Bassett, Noel Pickles and Charlie Smith (yep another one) all local boys. As luck had it we were able to fish from the jetty on two occasions when the visibility was about fifteen feet. Only a few fish were speared the best a 17½ lb. trevally speared by Peter.

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We had quite a shock when a line fisherman hooked a nine feet white shark, mere yards away from where we had

been swimming.

The Carnarvon boys use big guns six to seven feet long and very wide and thick 3/8" spears; welded heads; steel trace; 500 lb. breaking strain nylon cord and at least four sets of 5/8" rubbers, as standard equipment. Whether they are an advantage has yet to be proven.

On Friday night the seven of us set out for the N-W Cape. At this spot, we had been told, we could not miss out

on seeing a giant groper at least.

Our equipment included; two iceboxes, jam packed with ice, enough food to last one week, 88 gallons of petrol and 88 gallons of water, all loaded in a four-wheel drive "Blitz-Waggon." Perched on and around the vehicle were various non-descript characters trying to give the impression of seasoned N-W bushmen and travelers.

Apart from eight spearguns our artillery consisted of one double barrelled shotgun, three .22 rifles and one .22 "Hornet" just in case we needed a change in diet.

Our high spirits lasted until the next day when we were obliged to change a staked tire (no spare) in a sun temperature hovering in the vicinity of 150 degrees.

Mere hours later we struck trouble again when our "unsinkable" craft slewed in salt marsh burying both the right side wheels almost completely. Four-wheel drive only sank her further into the clay. To add to our troubles, we did not know for sure where we were, the nearest bush was more than a half mile away and the only handy instrument we had aboard was a tomahawk, all shovels, axes, etc. conveniently left behind. The tomahawk was broken the next day.

Many boiled radiators, faulty generators, so and so gates and one day later we arrived at the N-W Cape and camped on the beach near the wreck of the "Mildura," an old rotting iron hulk sitting on a reef, looking as if it was waiting for the tide to come in. In the meantime we had also managed to crack a fuel line and lose the use of brakes.

Here at last was our spearfishing paradise. Line after line of broken limestone reef stretched out to sea for two or three miles. In the holes and under the ledges swam thousands of pig-faced bream and sweetlip in the five to fifteen pound range. Every pool had its small cod, moray eels and other fish. Along the reef edge swam bonito, turrum, giant trevally, an occasional big shark and possibly a N-W cod or two. Dozens of huge turtles and assorted sharks were everywhere. Large parrot fish fed on the reef flat apparently waiting to be shot. The only bug-bear was a rise and fall of tide of six to eight feet twice a day making conditions dirty and dangerous with poor visibility and swift currents.

Subsequent swims showed that the snapper and sweetlip under the ledges were easy pickings—novice stuff. To spear anything in the open however, required great skill, as any splash, sudden movement, or even the breathing through a snorkel, sent the fish flashing and darting for cover. Pelagic fish such as darts, trevally and bonito were seen as mere passing flashes.

On Monday we tried a bay inside "the gulf." The water here was shallow, three feet, stretching for at least half a mile before the water became deeper. Along the shore the water temperature was around 100 degrees, almost unbearably hot and especially painful on cut and festered feet swollen from mild coral poisoning.

Noel gave us an exhibition that should rate him as the

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im as the per 1960 next Tarzan, when with a magnificent running leap, he captured, after a struggle, a large green turtle, which was swimming in the shallows.

The reef itself had very little life, but I was fortunate in being able to spear and land, after a long struggle, a 51

b. trevally.

We had made our camp on the beach and each night partles came practically into the camp to lay their eggs.

We were able to witness the spectacle of a turtle laying eggs on our last night at the Cape, but as we had previously

tasted turtle eggs we did not disturb the nest.

For those who are interested here are a few facts about the N-W Cape.

First, it is in one of the lowest rainfull areas in Australia and though there is plenty of bore water, it is not drinkable. The kangaroo, emu and goat populations are enormous, probably outnumbering the sheep. Dozens of kangaroos can be seen at any time of the day and flocks of 200 to 300 goats roam freely, especially in the Yardie Creek area. Needless to say our arsenal kept goat and kangaroo on the menu.

There are no trees and the few large shrubs are occupied by kangaroos and ticks. The rest of the land is covered in salt marsh and sharp spinifex, making the beach the only suitable spot for camping.

Handline fishing leaves nothing to be desired. The only night we went fishing, the fish bit on anything. Snapper up to 10 lbs, were landed by the dozen and three cod of between 25 and 40 lbs, were caught. Six times during the two hours fishing our heavy 80 lb. nvlon lines were broken by big fish of some sort. As we could not possibly eat all we caught, only the damaged fish were kept the rest being thrown back as soon as they were landed.

The whole of the western shore of the Cape is enclosed in a reef varying from one mile to three miles out and runs for 150 miles down the coast. Inside this main reef water more than ten feet deep is a rarity and compared with outside the reef big fish are hard to find.

Fish cannot be carried in the water for any length of time because of dirty water and the shark risk. A boat is almost an essential.

It was not until we reached the Yardi Creek area that we saw any sign of our quarry, the giant groper.

At the mouth of the Pilgaronaman River, the first thing we saw was a school of white sharks with black tips on their fins, basking on the reef flat. The five of them ranged from five to six feet long. This type of shark we found to be quite curious. It was a common sight while wading along sand banks, to see one swimming rapidly toward you, or following along behind. Fortunately they were easily scared and always veered off and disappeared at a faster rate than they had approached.

With the aid of some handspears, the boys soon sent the basking sharks scattering for the open sea.

An inspection of the ocean showed dozens of sharks from two to twelve feet long swimming up and down the reef on their seemingly endless patrols. From this place to the end of our trip at least two people stood guard with the rifles while the others swam and fished. The rifles were practically useless but they were the only protection we had.

A quick swim along the reef edge revealed the usual thousands of small fish and a big six to seven pound coral crayfish was caught. This crayfish was unlike any I had previously seen. It was mainly blue on the body with the rest of the general color blobs of yellow. On the legs, feelers and tail were bands of bright red and orange with patches of green here and there. (I hasten to point out that no alcohol whatever was taken on this trip). Unfortunately our color films snapped in the camera and the photos of this crayfish

were destroyed, but we were able to take some black and white photos which clearly show the general color bands.

The boys were no sooner out of the water and were just packing away their gear when our first big groper made its appearance, the story of this one has already been told. On eye estimates it would have been from eight to nine feet long and over 500 lbs. in weight.

Next day, Wednesday, dawned with a stiff southerly wind blowing and the water as a result was very dirty. We decided to wait to see if the wind would drop. Charlie and myself nevertheless laid our gear out ready. As it turned out this was a good move.

Three of the boys decided to do some handline fishing. The snapper were biting as usual, but few were landed, for as fast as the fish were hooked, sharks would take them off the hook. One particular shark chased a large snapper right into the shore and with its head out of the water neatly bit the fish in half while the owner was trying to lift the fish up on the rocks.

A few moments later Ron hooked a three foot white shark and began to haul it in. Suddenly a huge head appeared and in a swirl of water the whole shark disappeared down the throat of a giant groper seven to eight feet long. The groper held the shark in its mouth and while the boys played it, Charlie and myself climbed into our gear, to see if we could shoot the fish before it broke the line and headed out to sea.

Visibility was so bad we could barely see the end of our spears seven feet away. The only way we could find the groper was by following the fishing line along.

Ahead of me I saw a flash of white and being used to blue groper I thought it was the groper's tail, so I swung my gun around to point it at the groper's head. To my surprise I was suddenly treated to a side view (close-up) of a huge black head with the white tail of the shark hanging from its mouth and my spear was right past its head. When I tried to bring my gun around for a head shot, the frightened groper opened its great jaws, three feet of shark tumbled out dead on the bottom, and the giant fish sped away out of sight taking a poorly placed spear with him.

When we returned to shore to reload, we were startled to see a repeat of the last performance, when two large black sharks cruised around the battle area. We could only watch as the groper swam out into clear sandy bottomed water, where it settled like a large back rock. Occasionally several eight to ten foot sharks would cruise around the wounded fish until eventually the groper swam slowly out into deeper water and vanished from view.

By now it seemed to us that this must be the home of big fish, but as the water was becoming dirtier we decided to wait for the outgoing tide, which although there is slightly less fish, the water is usually clear. We would then go for a swim.

Merely half an hour later, with the water still dirty, the cry of "Groper" again arose and once again a mad rush saw three spearmen hit the water with Peter Mack scoring a good shoulder shot.

Unlike its brothers this groper did not head out to sea, but sped along the reef edge towing Peter with him. In the process Peter cut his hands badly on sharp coral and was about to let his gun go when the cord broke. Once the line was broken it then headed out to sea and was last seen about ½ mile out still going strong.

As the water cleared a swim along the reef was undertaken but only a few small snapper, a turtle and an $18\frac{1}{2}$ lb. tusked parrot fish were caught. One other groper approximately five feet long was seen from the shore but it

(Continued on Page 43)

KILLER CLAMS

Perhaps one of the most interesting areas in the world for diving activities is the Marshall Islands located approximately 2,000 miles south-west of Hawaii. The year round temperature of the water and closeness of the equator make it a haven for the weirdest of underwater creatures. Two prominent clubs are located in this area, the Kwajalein Scuba Club located on Kwajalein Island and the Bluefins located at Eniwetok. Although some 350 miles apart, the clubs have gotten together on one occasion for a dive and on several occasions to swap

Around Kwajalein, many interesting areas are available for diving adventures. The lagoon is littered with sunken ships from the war and is considered somewhat a trap for wandering fishing vessels. An old German battle cruiser, used in the Bikini bomb tests, rests on a reef near Kwajalein. This is frequently visited by the local divers as the hull is a haven for underwater creatures such as manta and spotted rays, sharks, and barracuda. It is also the hiding place for a 300-pound grouper called "Sad Sam."

Few of the divers indulge in spearfishing because of the ever presence of sharks. As a general rule, divers are not so apprehensive about sharks but a speared fish tends to make the sharks much too intimate for comfort.

Perhaps the Kwajalein club had its most exciting adventures during a couple of trips to Ujae Atoll to gather giant killer clams. The lagoon, approximately 150 miles from Kwajalein, is dotted with large coral heads that cover from five to ten acres. These coral heads are in 80 to 100 feet of water and build up to within three feet of the surface at low tide. In and about the cliffs, caves and caverns the killer clam makes his home.

It is a frightening sight but a thrilling experience to swim along over the clams and watch them open and close their shells. When closed, a brilliant purple lip covers the rim of the shell. This can be

seen for 25 feet in clear water. When open, the clam looks something like the Grand Canvon. These big fellows are stationary and rather awkward but have the power to snap a man's leg off like breaking a toothpick.

Extreme caution must be used when near the killers as the slightest disturbance will make them clamp shut in a matter of seconds. Due to the inherent danger of getting an arm caught, the big ones are usually killed before an attempt is made to gather them. This is comparatively easy once you get the hang of it. To make the kill, the clam is approached from the end to prevent disturbing it and causing it to close. A firm but light grip is taken on the outside of the shell with one hand while the other hand reaches inside the shell and slashes the muscle with a bayonetsized knife. Once this is done, the shell is disabled and cannot clamp shut. However, bits of flesh usually come off to float in the water and this attracts Mr. Shark. The next step, while keeping an eye out for sharks, is to tie a rope around the shell, prying it loose from its coral nest and hoisting it up. The muscle is later cut out and thrown away or given to the Marshalese natives who consider it a delicacy. Very few Americans agree with them on this, however.

With good luck and not too much distraction, a shell of the 200 to 300 pound size can be gathered in about 30 minutes. The largest yet gathered in this area was a 525 pounder and took more than an hour to secure. The muscle or animal in this monster weighed 82 pounds.

Results were very good on the first trip to Ujae Atoll. On this

By MAJOR ROBERT D. JACKSON particular dive, the sharks, although in and around the area, were not too bothersome and 38 killer clams were collected. Besides being a fruitful trip, it also provided at least

A. L. Kelly, president of the club, and myself (treasurer) were interested in filming the capture of a killer clam. With a borrowed Seahawk outfit . we made our way along the beautiful coral head until we came upon a perfect setting where the coral was not only colorful but had built up in some unusual formations. It started with a giant cavern, littered with smaller caves, ledges and sharp overhangs. In and about the ledges and caves, the big killers made their home. Some were open, revealing the massive muscles that control the shell while others had been disturbed by a passing fish and were closed with the brilliant purple lip outlining the contour of the shell. The closed clams could easily be seen from 25 feet but the open clams blended closely with the surrounding coral and could not be seen until almost on them.

After cruising in and about the cavern for a while observing this awesome sight, we decided to make our first attempt at underwater photography. Kelly agreed to shoot the first round of film while the working diver and I were stalking and killing the monsters. Kelly, being a masterful diver and right at home under the water, swam around shooting at random for a while before giving me the signal to surface. We made our way back to a shallow overhang where we had anchored our float and talked things

I decided to do some shooting while Kelly dived down to approximately 60 feet and attacked the biggest killer clam we saw.

The extra weight of the camera didn't give me too much concern although I expended considerable effort to keep from sinking too fast. I took a position directly over the widest part of the cavern at about 40 feet. The movement of the water

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over the coral head made it a little difficult for me to hold the camera steady.

However, after satisfying myself that I had the camera steady and the subject in view, I tripped the shutter. Instantly my right foot touched something that startled me. I quickly glanced down to see my foot resting at an angle across the mouth of a big killer. Only the fin prevented me from sinking down in the mouth of this gruesome creature.

I immediately surfaced and Kelly, detecting something was wrong, came up too. We both quickly looked back down and saw this big monster open his shell as if he were laughing at us. Later, while discussing the incident, we agreed that apparently the light fin action while I was settling in the water disturbed the animal enough to cause it to partially close. Whatever the reason, it saved me from losing a leg and perhaps my life.

Diving in the Kwajalein area is very fascinating and lucrative. Besides relics found on the numerous sunken ships, shells of all kinds are plentiful. Some members of the club have outstanding collections. The cowrie species are the most abundant and every conceivable kind of coral including the black tree coral is found. The water is consistently clear making photography especially good.

The Kwajalein Scuba Club has been organized about one year and has a perfect safety record. New members are required to pass rigid tests before they are permitted to use scuba gear. Single dives are not permitted and the buddy system is rigidly enforced.

Shark stories are always heard around divers and members of the club have some of their own to contribute. However, the club has had no attacks which resulted in injury. Members believe that the shark usually manages to get across a message indicating whether he is hungry or just curious. It is an accepted belief that when sharks are traveling in packs, half rolling and obviously frisky, they are hungry and searching for food. The safest rule, and one adhered to by the club, is to get out of the area when the sharks encountered are in this frame of mind.

The smaller sharks impose the greatest danger because their movements are quick and hard to outmaneuver. The larger sharks are slower in movement and will circle an object in the water several times before coming in close. An alert

diver has sufficient time to get out of the area before the big boys work up an appetite.

However, sharks are very unpredictable as was proven by some tests made a few years ago on sharks in this area. Dynamite was exploded in their midst and besides not injuring them, it kept them out of the area for only 15 to 20 seconds. However, the blast excited them to a point where they were attacking everything in the water including each other. Their tendency to attack objects on the surface of the water was apparent but also observers noted several sharks fighting over an injured grouper in 60 feet of water.

Practically all species of shark have been found in this area. The gray shark is the one that should always be watched with extreme caution. Not too long ago, I saw a five-footer coming directly at me at a high rate of speed. Whether or not he was playing chicken, I do not know because I gave in and he passed just below me so close that I could feel the breeze. He took a position behind me about ten feet and tailed me for awhile. After I had nearly twisted my head off trying to keep an eye on him, he finally lost interest and swam away.

A local native received a vicious shoulder wound a couple of years ago from a small gray shark. This was a surface attack and the native literally grabbed the shark with his hand and threw it. The shark came back and bit him again near the elbow. Another native was bitten on the leg while trying to kill an octupus in 40 feet of water. This was also a gray shark and about five feet long. The native survived but his leg was permanently damaged.

Usually of little real danger to a diver but capable of lethal wounds are the scorpion fish and the stone fish. They are present in this area and are often netted for personal aquariums. It has been said that the sting of either of these fish can be fatal.

The Kwajalein Club has a fascinating and interesting display of shells and relics in the air terminal building. Many visitors seeing the display have expressed their pleasure and interest.

Whether for pleasure, education or rescue support, the Kwajalein Scuba Club is proud of its achievements. The club maintains an organized rescue team that is available at all times and has been utilized effectively in the rescue of a drowning man.



Chief Al Kelly pries a large clump of black coral from a coralhead.

Club divers were right on top of this huge sea turtle before it moved.



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By JOSEPH R. WILLIS

South Sea Searchers Guam, M. I.

> Finger coral collection is inspected by Mr. and Mrs. Helwig on the spot



Adventuring in the Deep

The sport of skin diving, that has become very popular in the United States and other countries, has also become very popular with the servicemen stationed at Andersen AFB, Guam MI.

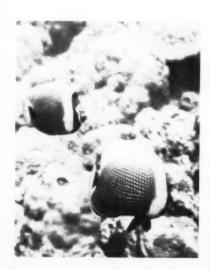
There are two diving clubs here, the South Sea Searchers, and the Marianas Divers. Both clubs have members from all branches of the Armed Forces.

The club's equipment consists of 35 lung tanks and 35 regulators. Also they were given two S.A. 16 air-sea rescue boats. The two boats are quite unusual as they are rescue boats which are dropped by parachute from B-50's. They are constructed of aluminum (typical of aircraft assembly), with 18hp gasoline inboard engines, capable of doing six knots, and a range of 1000 miles, have attachable wheels which enables the club to tow them anywhere about the island. Each boat is valued at \$20,000.

All equipment is supplied by Special Services. This is because the Air Force believes that a club such as the South Sea Searcher's, helps to acquaint their men with the safety factors of swimming and diving in the open sea, also it gives the men something to do in their spare time.

The warm blue waters of the South Pacific about the island, contribute to the adventure of skin diving that would make any person's heart beat a little faster and their eyes glow with excitement at the sight of the colored arrays of the coral formations, and the different varieties of sea life about them.

But above the splendor of this marine garden there is the ever present dangerous denizen of the deep. Formost of these are shark and barracuda, both of which are found in the warm water regions of the world. There has been no trouble with either in this area, except for a few incidents



Butterfly fish amble about in the underwater garden, colors are brown, yellow and black.

where a fish shark has stolen a stringer of fish from an unsuspecting diver. The sharks seen in this area are of two varities. We have what we call the grey shark which we believe to be harmless, it is dark grey in color, with a white belly and a large square shaped head, and having hardly any teeth. And then we have what we call the Thief, who steals most of our fish. He is light grey in color, with white tipped dorsel and tail. It is the opinion of most divers here that the shark is more of a "coward" than a "king," but we still have great respect for him, and regard him with caution at all times.

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Any Saturday or Sunday morning (weather permitting) on arriving at the South Sea Searcher's Club House, you will find ten to twenty senior and novice divers checking out equipment and getting it ready for the day's outing. As soon as everything is ready, they load a truck and start on their way.

As they ride along in the warm sunny morning, talk and thoughts are of the adventures that await them for the day. Upon arriving at Campbell's store in Agana they pick-up air tanks and then drive to the ice plant and purchase ice to keep the days catch fresh, then to the boat basin where the two boats are moored. The boats are checked by the boat captains, then air tanks, spearguns, fresh water and food are stored aboard. After everything is ready the engines are started, lines are

cast-off, and our boat heads up the coast in search of new waters to fish and explore.

As we near the cove, the underwater sled is put over the side, and a senior member with mask, snorkel, and flippers, is towed along behind the boat. As he searches about for a good spot to fish, the other members are getting their gear ready. All at once the diver on the sled yells to us to stop the boat and drop anchor. We can see the bottom 100 to 120 feet below us, because of the crystal clearness of the water and there are fish everywhere.

Regulators are attached to air tanks; face mask, flippers, snorkels and knives are donned. Underwater guns are checked to see that they are working properly, and those that have underwater cameras ready them. Those that are out to explore for coral and sea shells get their equipment ready, as last minute instructions are given to the novices. Then everyone pairs off with a buddy. One by one we go over the side and slip below the surface on our way to "Adventure In The Deep."

As you descend below the surface, you enter a world of silence and beauty such as you have never seen before. Here you see a land of enchantment as only Mother Nature can produce. The caves, crevices, and the coral formations are created here as only the constant washing away of particles of coral and rocks by the ocean since the beginning of time could produce.

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As you explore about in your conquest of this new and exciting world, you observe many different colors, and designs of coral and sea life. You see the fern coral swaying back and forth with the gentle current, also brain, fan, mushroom, and finger coral.

The different species of fish abound,



Giant Jack fish, or "Ulua," speared in Waimea Bay, Hawaii, by veteran diver Richard "Bing" Chock with simple Hawaiian sling (note hent snear).

such as the Moorish Idol with it's black, yellow, and white stripes, the dainty butterfly fish with its black, yellow, red, and white oblique stripes. The Guelea is a native of this Island and there are many others, Honaloa (Porgy), Talaketak (Skip Jack), Tagafe (Red Snapper), and many more.

You are seeing things which you

have never seen before, and as you have explored about, you have speared a few fish, collected a few sea shells, and some very nice pieces of coral.

After about an hour of this exciting adventure your air supply has run out, so you and your buddy snorkel back to the boat, strap on your second tank, and return to this garden of beauty. As you descend beneath the surface again you see for the first time a shark, which has been attracted by the blood from the fish that you and the others have speared. Even though it is a small one you stress caution as you go about your conquest of this wonder world again.

As you glide on in this water world, like a bird in the sky, you understand why no one could tell you of the beauty of this marine world, and why one can only understand the excitement and the beauty by joining the many others in this adventurous sport of diving. With your air supply gone again you return to the boat, store your empty tank, and return to the ocean to snorkel till the rest of the members are ready to leave. Even then you do not want to leave this world of enchantment.

Your day of diving with the South Sea Searcher's has been a full day indeed, but most of all in your mind, is your great expectation for your next "Adventure In The Deep."



Sea Searchers load their S.A. 16 air-sea rescue boats for the diving trip. These craft, usually dropped from \$50's, have attachable wheels and may be pulled to various parts of the island for launching.

Out from cairns: A tremendous jerk, water foaming past the face mask, sensation of helplessness, despairing effort to make surface, a breath of much needed air—thus was my introduction to the giant tuna.

I have always held that skin diving on one's own is not wise. But the time comes to most divers when there is no choice, and 99 times out of 100 there is no worry—on the hundredth...

The sky was clear and sun high as we finished trawling for mackerel so, while the others made ready for sleep, I loaded up the dinghy with my gear and, though filming was the object, I tossed my spear gun in, on the off chance of a try at a giant wrasse.

Minutes later I threw the anchor over on a large niggerhead at the edge of deep water off Pixie Reef and slid overboard. The terrain was terrific—visibility was about 90 feet and below and around me lay, in 50 feet of water, rugged colorful cliffs, with deep ravines, cleaving their winding way deep into the coral.

Cods darted from shelter to shelter, while a large barracuda circled menacingly. Meanwhile, thousands of tiny bright blue damsel fish spun and danced around one another in a mad whirl of merry-making.

After a while of filming I saw the unmistakable shape of a giant wrasse. Having filmed them on a previous occasion I relinquished my camera for the gun. Small sharks were well in evidence as usual and sometimes a larger version would wander past. However, being nearly all white tips, I was not very worried. Ten minutes of hunting and I saw the wrasse (about 100 pounds) glide behind a great pinnacle of coral. Drifting with the tide, I sank down the other side and swam quietly around hoping to surprise it.

A sudden movement in a huge cleft, the gun swung round and I fired in the one movement. Horrified, I realised this was no giant wrasse, but the dog-tooth tuna—one of the fastest fish in the sea! What it was doing there I shall never know, but its length was over five feet and it was about two feet through.

The next moment I was hitched on to an express train, and the following seconds were a nightmare of spinning coral and pulls that nearly tore my arms from their sockets. Why not let go the gun, you ask? If I told you it was of a type costing over £50 (over \$100) perhaps you will understand.

During the first run, the water pressure dragged the face mask down round my neck. This was just to make things worse. After about 20 seconds the 200 lb. tuna flashed under a coral ledge in 40 feet of water and I released my wire line onto the 500 lb. braided nylon on the reel and return-

ed to the surface. The wire line had twisted round some coral and, when the huge fish left its shelter, the speed of the run broke the coral, tore out the detachable head with a large piece of flesh still attached and bent both spear and head.

It was on this reef at a later date that I went over the side of the main boat into about 90 feet of water in an attempt to spear a circling turrum. Looking down I saw three big flower cod, each about 60 p o u n d s. and though we dropped baits right in front of them not one would touch the lure.

For some reason the number of sharks I have seen is always higher around a reef that has no coral cay. Those seen are, in the main, white-tips ranging from four feet to ten feet. Most of them are very curious but, after a good look, they go away. I have tried shouting, but the last result was unexpected; three, a good distance away, turned and came charging up to about five feet from me. As each was about seven feet long I nearly had a fit. However, I filmed the action, which showed the sharks stopping with incredible speed.

On some days the waters seem to contain great quantities to fish but, on others, the same place hasn't a fish in sight.

Green Island: One and a half hours from the muddy foreshores of Cairns lies the coral cay of Green Island. This small cay has grown over the years and is now well covered by

GREAT BARRIER REEF



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palm trees of some 54 ft. in height, while dense foliage has narrow tracks cut through to allow the easy exploration of the place.

The reef extends in places for over a mile. This causes a jetty of sufficient length to make a small hike of crossing from the boat to the island.

The water on calm days is very clear and, at the edge of the reef, visibility is about 80 feet! This lovely coral island is a sanctuary, so don't take spear guns, you can't use them-though some four miles away is Arlington Reef, where you can "go to town."

If you own an outboard, and take, your own petrol, then, oh! skin diver, here is a place for your camera. The fish are not wary and wonderful close-ups are possible.

To the sightseer the underwater observatory is a wonderful way of filming or viewing without getting wet, but to the skin diver there are yet more wonderful things in store. We placed our outboard in position, argued with it for a while, then chugged our way to our favorite diving zone, the niggerheads on the southern side of the islands.

Here we dropped anchor and, donning rubber suits, slid over the side into staghorn coral, while plate-like masses banked on one another like a pile of dishes. In and out of the overhangs played beautiful butterfly fish, while the dainty yellow, black and white anemone fish played among the tentacles of their deadly partner.

Already my offsider was diving to view a coral trout goggling at us from under a mushroom-shaped coral cluster. While my attention was attracted by the sound of crunching, into view, some 40 feet away, swam a slow-moving school of about 30 parrot fish, all with their beak-like mouths pointing down and tails sticking up, like a lot of big leaves. Seconds later my movie camera purred as the scene was transferred to film. The surprising noise stopped the feast, the parrots jerked upright, gave a shocked look, and decided they had an appointment elsewhere.

The buzzing served a good purpose for, moments later, a school of two feet long barracudas, flashing silver, circled slowly as if wondering what new monster they had among them. I should care—the motor was busily gobbling in the new subject!

Later I filmed two fish I was unable to identify, both about 30 lb. They were like big thicklip, but golden brown and longer. Later on, at Arlington Reef, I speared one of 26 b. 9 ozs.

Day followed day, cruising over

calm waters, always finding new and unusual things. One day we sighted a big school of thicklip bream and, knowing how curious they are, I dived to about 20 feet and hung on to a piece of finger coral. Sure enough, they turned and swam towards me. When about four feet away they turned sideways and circled, apparently enjoying the movie sound. As the school contained about 50 to 100 the sight was impressive, for all were in the seven to 10 pound class.

In the week spent at Green Island we encountered but one shark and this was only about seven feet long—a rare pointer shark. It was so wary that it would not let us within 10 feet. The fringing coral reefs are unusual in as much as you get parts in the coral gardens that are nearly all soft coral, while other areas are all hard.

Shells are prolific, especially cones. Bubble shells, volutes and cowry shells are common, especially the white ones, which look most effective in the water. Spider shells may be found, too, without much trouble.

This island sanctuary is supposed to be left untouched; no shells or coral may be removed!

Whitsunday Islands: South Molle, Hayman and Lindeman—names that conjure up romantic ideas of sunkissed beaches, swaying palms and cool, tranquil waters with the rocky continental islands with their fringing reefs teaming with big fish.

This was the thought I had in mind as I bundled up four spear guns, a double lung, movie and still camera, to say nothing of the excess weight caused by rubber and four suits and weight belts.

First stop Hayman Island and from the time the rattling candystriped train started to leave the jetty a friend and I were anxiously scanning the water to see its clarity.

At the first opportunity we made for the coral niggerheads, at the edge of the blue and, after much pulling, a leaking catamaran was persuaded to carry us to our intended hunting ground.

Visibility was 20 feet. This later proved to be average-to-good for the island.

Our spearing grounds were on the jetty side of the island and, as we "snorkeled" a mong the grotesque coral shapes, we found a profusion of good sized sweetlip, coral trout and parrot fish, with a number of batfish lumberingly passing, while cods eyed us suspiciously from the doubtful shelter of their coral holes.

Catch followed catch and soon we had all the fish we wanted—some



Two Flower Cod, each weighing over 30 pounds, taken from Blue Pearl Bay at Hayham Island on the Great Barrier Reef by author, Richard Lurie.

eighty pounds. By now we were spearing along a steep coral cliff of a small island called Arkhurst. The bottom showed a misty outline which vanished at the slightest swell, while an overhang some three feet from the sand gave ample shelter to the wary. Here, indeed, the sudden deep water made one develop great care, for this was shark area.

A dim shape materialized and there was an eight or nine-foot tiger shark advancing with the majesty of the powerful. He slowly circled, eye gleaming yellow, yawned once, showing clean white teeth, razor sharp and curved, swayed a streamlined tail and vanished—leaving at least one perspiring diver behind him!

A cry! I spun quickly. "Come quickly!" John's voice hung hollowly in the air. "Big cod!" He stretched wide his arms.

We searched under the ledges, into the dull recesses of the fish realm, and among the clefts, but, alas! no sign. Frustrated, I turned away, only to find myself suddenly circled and passed by dozens of thicklips. My gun "wooshed" and the water-propelled spear thudded into its victim, while the detachable head slid off and held the struggling fish.

Later, during our stay, I was swimming near the jetty. I dived, saw a big shape, fired, then hung on to a fighting demon for a while. I groaned as I tried to disentangle the wire line from under some hoop iron in 30 feet of water. At last I succeeded and a still-pulling fish was landed—a coral trout of 39½ lb.

Blue Pearl Bay, situated on the other side of Hayman, is a big area (Continued on Page 44)



CHRONOMASTER-Another CROTON Nivada Grenchen first! A super-chrono-graph for SKIN DIVERS and Sportsmen that performs every timing function known to man-on land, sea, air and even UN-DERWATER, at any depth. The Chronomaster features a 17 jewel precision movement that will run for approximately 36 hours on one winding. Impressive slim, all steel case with black enamel top. Shock-proof and completely waterproof Sold and serviced in 105 countries. Price \$100.00. For name of nearest dealer write: CRO-TON WATCHES, 448 So. Hill St., Los Angeles 13, California.

THE TRITON NAVIGATIONAL COM-PASS has been engineered with patented features, to enable a Skin Diver to continue motion in a swimming attitude, while keeping continuous vigilance on an accurate compass heading and the forward horizon. One of the most important features of the compass, is that the dial is illuminated by optical magnification of reflected light from the surface, and may be read in the most twilight conditions. The Triton Compass is reutrally buoyant, compact, precisionly built, with a powerful cobalt magnet and jewel bearing. Price \$5.95. Sea-Well Engi-neering Company, P.O. Box 443, Des Plaines, Illinois.

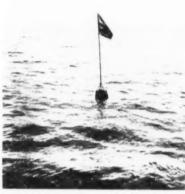


REINFORCEMENT KIT-For divers who really put wear on their suits such as; gold divers, abalone and lobster divers, cameramen and salvaging. See the new heavy duty rubber patch originally made to commercial divers' specifications. These are now available to reinforce your elbows, knees, booties and pants. Patch resists abrasion and scuffing thus suit wears longer. Feathered edges permit patch to stretch with the suit. Prepermit patch to stretch with the suit. Prevents patch pulling away from material and forms a permanent bond to your suit. 2—5"x8" patches, 2—3"x5" patches, 1—2 oz. can of solvent, 1—2 oz. can of cement, instruction sheet. Retails at \$4.95. Dealers inquire: Duk-Line Products, P.O. Box 577, Hermosa Beach, California.

ADVANCE TICKETS ON SALE UNDERWATER FOR COUSTEAU FILMS

Captain Jacques Cousteau's films to be captain Jacques Cousteau's nims to be shown at 8:15 p.m. January 11, 1961, at the Bushnell Memorial Auditorium in Hartford, Conn., are being presented by the Connecticut Sea Devils Club. Advance tickets may be purchased from the club at P.O. Box 358, West Hartford, Conn., at the following prices: reserved section, \$2.50; adults, \$1.75, and children under

The Bushnell seats 3200 persons and a sellout is expected. Reserve seats now. This will be the first showing in Connecticut and probably in the country.



An early day Divers Flag used by Louis Boutan to indicate the location of his diving and comera equip-ment during the years 1893 and 1898. Exact design of the flag at that time is unknown. Photograph ourtesy of Bob Kendall.

OCTOBER 25 IS DEADLINE FOR LA COUNTY INSTRUCTOR CERTIFICATION

Los Angeles County Department of Parks and Recreation announces their tenth annual certification course for underwater instructors to commence January 18, 1961.

All applicants should register before October 25 with Department of Parks and Recreation, Underwater Section, 834 W. Olympic Blvd., Los Angeles 15, Califor-

"UNDERWATER NAVIGATION", by Jack E. Glatt—A new, interesting, technical handbook on basic navigational techniques for the Scuba Diver. The 48 page booklet includes information on the correct reading of a compass and navigational charts; where to find nautical information through Government Offices; techniques in finding underwater locations, your position, and in returning to a surface point of departure. Also included, are photographs and illustrations, demonstrating the tech-niques employed, along with a five page Glossary, defining all navigational terminology. Price \$1.00.

Underwater Archaeology In Guatemala

This is the title of a recent paper written by Stephen F. de Borhegyi, Director of the Milwaukee (Wisc.) Public Museum, for

FILM FESTIVAL AND EXHIBITION

Underwater photographers, a group composed of people who frequently find themselves with plenty of good footage, but no appreciative audience. can take heart.

The Underwater Photographic Society has announced the First Annual National Underwater Photographic Exhibition. The society invites photog. raphers to submit their black and white prints, color slides, and movies to the exhibition according to the conditions of entry established by the

The exhibition will be held in conjunction with the Fourth International Underwater Film Festival scheduled for January 20-21 in the Santa Monica Civic Auditorium, Santa Monica, Calif. Entries in the exhibition that receive notations of merit will be shown at the Film Festival,

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Judges for the competition will be not just photographers-but will be well aware of the specialized field of underwater picture taking. The judging, slated for January 6-7, will be done by: Jim Auxier, Editor, "Skin Diver Magazine;" Ernest Brooks, Brooks Institute of Photography; George W. Cushman, APSA National Division Chairman, Motion Pictures, PSA; Stuart M. Ogg, Mitchell Camera Company; and James Box-baum, Story Editor, ZIV Television.

The annual exhibition and the Underwater Film Festival will be conducted in accordance with the recommended practices of the Underwater Photographic Society. Co-sponsors for the event are Los Angeles State College and "Skin Diver Magazine."

Entry blanks for the Underwater Photographic Exhibition are available by writing to "Skin Diver Magazine," Lynwood, Calif.

Underwater Photographic Exhibition

Calender of Events

Closing Date for all Entries, December 31, 1960.

Judging, January 6, 7, 1961.

Exhibition Dates at Fourth Annual Underwater Film Festival, January 20, 21, 1961.

All entries and catalogues returned by January 31, 1961.

the Congreso Internacional De Americanistas. The material covered in the manuscript is about the use of scuba equipment and divers in the recovery of archaeological specimens from Lake Amatitlan in Guatemala. An excellent report of the div ing activities has been prepared for SDM by one of the divers on the expedition:

NEW CALEDONIA, LAND OF COMPETITIONS

By JIM OETZEL

N EW CALEDONIA, an isolated and relatively unknown South Pacific island, 30 miles wide and 250 miles long, lies approximately 700 miles northeast of the Australian Barrier Reef.

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Covered with emerald tropical forests sweeping into golden sandy beaches and colorful reefs, with an average temperature of 70° F, New Caledonia combines the unspoiled charm of a French colonial atmosphere and a superb cuisine which alone would make it worth a visit. It is a veritable underwater paradise for photography, spearing, shell collecting, or just goggling.

Noumea, the capital of New Caledonia, population 20,000, is proud of its unique ocean aquarium, which displays ecological relationships of a barrier reef, with a living exhibition of corals, gorgonias, Hydrozoaires, Alcyonaires, nudibranches, crustaceans, and the reef fish in their various symbiotic relationships, including the clown fish (Amphiprion) living in sea anemones, and the blade fish (Aeoliscus) dwelling among the spines of the sea urchin (Diadema).

Surrounding New Caledonia is the world's second largest coral reef forming a barrier against the rough water of the open sea, so that the relatively shallow lagoon area between the reef and the shore is calm, clear, warm, and contains an exceptional abundance of all forms of marine life. These conditions make it ideal for the underwater devotee.

To illustrate the productivity of this area, here are the results of the five teams entered in a recent spearfishing competition, March 6, 1960:

1. Perroquets Team (Duffieux, Nugues,

2. Barracoudas Team (Dumeus, Nugues, Gastaldi) 159 fish, weight 1.032 pounds.
2. Barracoudas Team (J. Barthelemy, Gavin, Song) 169 fish, weight 955 pounds.
3. Godzillas Team (Thong, C. Bartheleme, Charles Charles emy, Cheval) 116 fish, weight 924 pounds.
4. Balistes Team (Fayard, Meunier, Gervolino) 66 fish, weight 790 pounds.
5. Espadons Team (Morignat, Matsuoka, Raynal) 116 fish, weight 653 pounds.

In the three hour alloted time, the



Ninety-six pound wrasse (Cheilinus undulatus) speared and londed by unidentified New Cale-donian diver. Photos by Jim Oetzel.

average catch per man was 42 fish, totalling 290 pounds, which meant that a fish was speared every 4.3 minutes. The largest single catch was taken by Claude Barthelemy of the Godzillas Team: 46 fish, totaling 400 pounds, which would average over 130 pounds of fish per hour.

The meet was conducted under a strict set of rules: Diving is restricted to certain sections of the reef. Each team is composed of three men, and three hours is the total time in the water. Only rubber guns are permitted: power heads, gas guns, floats, and lungs are prohibited. Only edible fish are allowed, and no sharks or rays are accepted. Each team's boat carries a judge to assure that everything is in order.



High school student displays his catch, an eight pound lobster . . . a small one by local standards.



A short trip to the reef resulted in this catch of turtle and wrasse, known as "Napoleon" by Gilbert Thong and friend. Photo by G. Thong.

SKIN DIVER-October 1960

GLASSPAR DIVING DERBY

By CY SCHNEIDER

A world record sixty pound Ling Cod (Pacific Cultus) has won the Glasspar Gamefish Diving Derby. The winner is 22-year-old Melvin E. Sapp who received a 16-foot Glasspar Avalon Runabout as the first prize in the contest.

Sapp's sixty pound catch netted a total of 720 points. His catch was verified by Johnny E. Sweatt of Sport Craft Divers in Port Angeles, Wash. According to all available information, the sixty-pound Ling Cod is a new record. The only authenticated Ling Cod record is 411/2 pounds, caught near Monterey, Calif., within the past ten years. There are unauthenticated stories of fifty pound fish, but they are relatively rare and the scales were not checked at the weighing. There are also published articles of seventy pound, five foot Ling Cods caught off British Columbia between 1850 and 1870, but these, too, are unauthenticated.

The winning Ling Cod was speared by Sapp while diving on the wreck of the "Diamond Knot." Sapp, a member of the Nemgorf (frogmen spelled backwards) Divers Club, was buddydiving with fellow-club member Johnny Sweatt when they sighted and shafted the record-breaking fish.

The contest took an unusual turn by ending in a virtual tie. Another Port Angeles diver, Clay Crumley, sent in an entry of another sixty pound Ling Cod for a total of 720 points. However, contest rules specify that in the event of a tie, the earliest post-marked entry would be awarded the win. Even though there was no second prize announced, Glasspar has given Crumley a check for \$50 as a consolation prize. It was interesting to note, however, that these two worldrecord fish were caught within thirty days of one another in the same approximate area.

The contest, which had entrants from every corner of the United States, showed some spectacular catches. For example: there was a



Contest winner Mel Sapp (left) of Port Angeles, Washington, received his trophy . . . a 16-foot Glasspar Avalon runabout. Boyd Brewster, district sales manager of Glasspar's Olympia, Washington, plant makes the presentation.

480 pound Black Sea Bass entered by Jack Dudley of Laguna Beach, California. This was announced in "Skin Diver Magazine" as a new I.U.S.A. world's record for a fish in that species. This category in the contest showed some highly dramatic catches in addition to Dudley's.

Raymond F. Babb of Canoga Park, California, caught a 423 pound Giant Grouper and Ray Albeanese, Jr., of Harahin, Louisiana, spearéd a 440 pound Jewfish. Vince Manieri of North Miami, Florida, entered a 334 pound Jewfish. Incidently, Manieri complained that Glasspar did not have a category for whales since he recently caught an eight foot Pygmy Sperm whale by hand. There were also several discrepancies in the contest. Mr. A. C. Abbett of St. Petersburg, Florida, entered a Bonita weighing forty-five pounds. However, in checking the photograph of the fish with Dr. B. W. Walker, ichthyologist at U.C.L.A., the fish was identified as a Cobia, and was not a registered category in the Glasspar contest. Mr. Abbett's entry was regrettably disqualified.

Other particularly interesting catches were as follows:

A thirteen - pound, twelve - ounce Tautog, caught by Robert J. Demers of Attleboro, Massachusetts, A fiftyfour pound Striped Bass caught by John Ciampa of Brooklyn, New York. A twenty-four pound, eight ounce Sheepshead speared by Donald Rolstad of Chula Vista, California. A fifty pound White Sea Bass shot by David Wellander of Long Beach, California. A twenty-two pound Barracuda caught by Pete Sisov of Detroit, Michigan, a thirty pound Carp caught by Robert Ploense of Chicago, Illinois, and a sixty and three-quarter pound Red Snapper landed in Puerto Rico by Lt. j.g. Roy L. Richman of the U. S. Navy.

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This was the first year of the Glasspar Gamefish Diving Derby, and the response from divers all over the country was highly enthusiastic. In many cases, the divers' entries were so unusual for their particular community that the photographs they sent in were also published in their local newspapers.

Officers of diving clubs, diving shop dealers and boat dealers sent in letters of congratulations to Glasspar thanking them for their help in publicizing and encouraging our fast-growing sport.

SKIN

Old Sheepshead Caught

A 29-pound male sheepshead fish that was caught recently off Santa Cruz Island was determined to be 53 years old by John E. Fitch of Marine Resources Operations of the Fish and Game Department.

Fitch was able to do this by checking the rings on the cheek bones of the sheepshead. Previously a 131/2 pound male sheepshead was checked out as 18 years old. The largest sheepshead of which Fitch could find any record was a 361/4-pounder mentioned in the May 1959 "Skin Diver Magazine." No estimate was given as to the age of the 36-pounder.

SECOND INDIVIDUAL COMPETITION SET **FOR OCTOBER 23**

The Second Annual Fall Individual Competitions will be held October 23 at Dana Cove Park, on the south side of Dana Point, from 11 a.m. until 3 p.m. Awards will be presented in seven cata-

gories to the men and women participating in the open competition. Awards will be made in the following classifications: abalone, lobster, sharks, rays and eels, sheeps-head, game fish, halibut, yellowtail, whites, etc; calico and sand bass and cabezon; and opaleye, sargo and perch.

All divers are invited to participate in the

open event, no affiliation necessary.

"STAR MOP" SAVES OYSTERS!

The Empire State Underwater Council again came to the rescue of the Long Island Oyster Industry by sponsoring its second annual Star Mop at Eaton's Neck, Long Island. Council President Don Marchese and Bill Willis as chairman of the Star Mop arranged the event with the converting of the Star Council cooperation of the State Conservation Dept., Bureau of Marine Fisheries; the Long Island Oyster Farms, Inc., and the U. S. Coast Guard.

The site for this harvest of stars was a rocky area adjacent to the oyster beds, where the starfish could only be gathered by skin divers. Dredges employed to collect the starfish cannot be used on rocky bottoms; hence this area afforded easy access to the oyster beds for the predatory starfish which were rapidly advancing.

Two hundred and twenty-five skin divers, members of amateur skin diving clubs and also independent divers, gathered from as far away as Delaware. New Jersey, Connecticut, and up-state New York to enter the competition. Dressed in diving attire and carrying burlap bags, the frog-men lined the beach awaiting the signal to begin the three-hour long star mop.

In addition to the prize offered for gathering the most starfish, two copper starfish stamped with the words "Star Mop" had been tossed into the waters and entitled the divers recovering them to cash prizes. The champion mopper was Robert Maurer, a member of the All-American Skin Divers of Long Island City, Queens. He captured 8, 264 starfish in three hours.

The starfish-studded rocks extended as far as 300 yards from shore and to a depth of 40 feet. The divers made numerous trips to bring their catch in to be weighed on the shore. The ill-fated stars of the day numbered a half-million. George Vanderborgh, manager of the Long Island Oyster Farms, said this represented a saving of \$100,000 to the ovster industry.

SOME OF THE GLASSPAR DIVING DERBY ENTRIES



winner! Mel Sapp with his record-breaking 60 td Ling Cod. The fish netted Sapp 720 points to out all others in the running for the first prize

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Denaid Reistad of Chula Vista, Calif., speared a 24 lb. 8 oz. Sheepshead off Point Loma, San Diego.



David Wellander and his 50 lb. White Sea Bass entry landed near Catalina Island, Southern California.



Record-breaking 30 lb. Carp landed by Robert Plaense of Chicago, Illinois.

DIVING MEDICAL TEACH-ING SLIDES AND MANUAL NOW AVAILABLE

E. H. Lanphier, M.D., and R. A. Morin have reproduced the U.S. Navy air decompression tables in a pamphlet they are distributing free to instructors and diving

This material is reproduced directly from the U.S. Navy Diving Manual which was sold out shortly after its first printing and is still unavailable. As a service to divers and instructors the two men have presented the pamphlet for use in conjunction with a series of teaching slides (Medical Facts of Diving) that they have prepared. Medical Facts of Diving consists of thirty 2x2 Kodachrome slides with accompanying manual of Instructor's Notes being distributed by Association Press, 291 Broadway, New York 7, N.Y., at a price of \$25.00. Supplementary materials are available directly from Lanphier and Morin Associates.

The Navy air decompression pamphlet can be obtained free from Lanphier & Morin Associates, 115 Lorfield Drive, Snyder 26, N. Y. The request should be made on organization letterhead with a self-addressed stamped envelope enclosed. 🜤



UNDERWATER SOCIETY OF AMERICA

JOHN J. McANIFF

Director of Publicity, Underwater Society of America P. O. Box 724, Station A Champaign, Illinois

The festivities of the First Annual Convention of the Underwater Society of America are over but the rumbles of the accomplishments are still tingling in the hearts of those who attended. The Shamrock Hilton at Houston, Texas, was host for three days, August 19 through 21 to the hundreds of visiting divers from all over the world. Some came from as far away as the Virgin Islands and Europe and of course all the states plus Canada, Mexico and others were well represented.

The reports of the Society's various study committees as predicted in this article last month were fairly accurate but of course far more specific. One of the most interesting and positive reports came from the Director of Studies-Legislation, Mr. Eugene D. Vezzani whose research on the dangers of importation of the dreaded Piranha into this country has stirred legislative action in many areas. Mr. Vezzani's report cited specific proof that this dangerous and carnivorous fish can quite definitely breed and survive in many of our own waters even though its natural habitat is in tropical waters.

Our Director of Safety, the very able Mr. C. B. Davis of the Ontario Council presented an excellent report and an illustrated promotional folder on the Divers Flag explaining its proper use plus a printed Code of Safety Conduct for all divers. Mr. Davis also outlined the Society's accident report program which includes a study phase of all accidents over the past five years.

In addition it was verified by our president that the Society is now a recognized member of the National Safety Council and that Mr. Davis has been scheduled to present a lecture to this organization's forthcoming annual conclave on the broad field of underwater safety.

The foreign relations of the Society especially as they concern the World Conference (C.M.A.S.) have been in the very able hands of the world-famous Mr. Gustav Dalla Valle who presented to the Board of Governors the C.M.A.S. Financing Plan which in due order was accepted by the Board. A committee to implement the advance of this plan will be established shortly. In other foreign relations news of the convention an offer to participate in competitions outside the United States in the near future was declined because of the pressure of existing commitments in the competition field.

Following a long study by the Competitive Skin Diving Committee a set of recommendations for rules changes and additions was submitted to the Board and received nearly unanimous approval on almost all points. Most important of the adopted changes was one to prevent amateur athletes from capitalization upon their name or athletic fame under threat of the loss of their amateur standing. Most notable in these deliberations was the almost unanimous accord of all areas of the country on the basic concepts and intent for the future in competitions. Such fine harmony in this

area is most definitely welcome after the many years of effort put forth toward this

The convention successfully adopted an amendment to the Society constitution establishing a Vice-President for Competitive Scuba Diving and the Board proceeded to set up a complete organizational plan for this division identical to the already existing one for competitive skin diving.

In the field of certification and training the Society is co-sponsoring with "Skin Diver Magazine" the National Association of Underwater Instructors program, the first session of which was held at Houston immediately following the convention. In addition the Society's Director of Training-Studies, Mr. Jack Whelan and his committee is accepting from each of the Councils their certification and training programs for examination to determine that those programs already in existence meet the minimum requirements set by the Society.

Another important item from the convention was the announcement that Miss Mel Lillis, the Inter Council Co-ordinator will serve also as an information service to sift all inquiries of an informative nature. Such requests as good diving areas, transportation facilities, location and names of clubs, etc., will and should be directed to Miss Lillis c/o Society headquarters.

Another item proposed to the Board and under consideration was the establishment of an Academy of Underwater Arts and Sciences. Mr. Walter Feinberg of Boston and the famous author James Dugan have done considerable work toward this end. Full particulars will be forth coming in an ensuing report.

The award for the 1961 convention of the Society was won by New Orleans with the Long Beach/Los Angeles area in hot contention. Since Los Angeles did not prepare a bid for the 1962 convention that year's award went to Chicago. In all, eight separate areas submitted bids to the Board.

President Carl H. Hauber of Illinois,



Convention Chairman George Youmans receives a NOGI award for his 1960 Convention efforts from Burnie Dodge of the Louisiana Council, Brock Shugar Photo.

Treasurer Lee Morton of Washington, and Secretary George Krasle of Georgia were re-elected for a second term and John Geiszler of California who had served in a temporary co-chairmanship capacity this year for Competitive Skin Diving was elected to the post of Vice-President of this division. John J. McAniff of Rhode Island was newly elected to the Society's Vice-Presidency position and the newly vereated position of V. P. for Competitive Scuba Diving was filled by Dick Alba.

Guest speakers for the convention's general assemblies included Commander George F. Bond, Commanding Officer of the U. S. Navy Medical Research Laboratory at the Submarine Base, New London, Connecticut; Mr. James Dugan, author of "Man Under The Sea," and co-author of "Captain Cousteau's Underwater Treasury" and other books, and Mr. Luis Marden of the staff of The National Geographic Magazine and one of the world's leading photographers of subjects both beneath the sea and above it.

neath the sea and above it.

At the dinner dance and banquet held on Saturday night presentations of the first NOGI awards were made by the Louisiana Council to outstanding contributors to the field. The recipients of these awards were our President Carl H. Hauber; the chairman of the World Championship Finance Committee, Eugene D. Vezzani, Mr. George Youmans, Chairman of the Convention Committee and the publisher of "Skin Diver Magazine," Jim Auxier and Chuck Blakeslee. Presentations of awards for contributions to the World Championships Fund were made by the Georgia State Skin Divers Association for the Society by Mr. Vezzani with the award for the top contribution going to Mr. Serge Birn, internationally known figure in the skin diving world and presently Vice Chairman of the World Confederation.

Many other advancements in the field are in the works as a result of this convention and the Board of Governors meeting and each will receive complete coverage in this report in the future as they are completed.

This report of the convention would not be complete without paying tribute to the man who gave so unselfishly of his time, effort, money and health to make the First Annual Convention of the Underwater Society of America such a complete success, Mr. George Youmans of the Southwest Council and Chairman of the Convention Committee. I am sure that all who witnessed this fine southern gentleman's efforts join with me in saying thanks for a terrific job extremely well done.

In cooperation with the Society's Official Photographer for the convention, Mr. Brock Shugart of Houston, we are making available a limited number of souvenir albums with ten 5x7 glossy prints covering important phases of the entire convention all bound into a handsome navy blue album with gold lettering citing the First Annual Convention. These albums will become an historic keepsake in years to come and are a bargain at \$6.50 complete. To acquire one simply address "Convention Photos" c/o the Society address and enclose check or money order for the \$6.50.

Another item which will be in demand by divers all over the country as a remembrance of this historic event is the Souvenir Program of the convention. A limited number of these is also being made available on a first come, first served basis at a cost of \$1.10 (the 10c for handling). To request this item write to "Convention Program" c/o Society headquarters and include your check or money order for the \$1.10

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One of the many honors and awards bestowed on re-elected Society President Carl Hauber (center) was a newly created NOGI. The presentation was made by the President of the Louisiana Council and Jay Albanese (mar). The NOGI, richly carved from wood and symbolizing all diving, is the underwater equivalent of the movie Oscar and the TV Emmy. Brock Shugart Photo.



Cmdr. George F. Bond, U.S.N., Medical Research Lab-oratory, New London, Conn., takes a few moments with his pipe during the long hours of the Underwater Society of America Convention at Houston, Texas.

The Society Legal Officer, Hal Lattimore, addresses the banquet. Brack Shugart photo.



Sportsways Announces New Personnel

Sportsways, Inc., is now a wholly owned subsidiary of Shore-Calnevar, Inc. of Para-mount, California. This was revealed by Philip Shore, President of Shore-Calnevar with the announcement that the parent company had purchased all of the out-standing stock including the holdings of Mr. Richard M. Kline.

Concurrently, Mr. Fred Plotkin, Chair-man of the Board and Executive Director of Sportsways announced a realignment of

his executive staff.

Plotkin revealed that he had retained Jim Gardner and Dick Bonin as a marketing and sales team for the newly constituted Sportsways organization.

The latter two, working closely with Sales Manager, Irving York and Chief Engineer Sam Lecocq and their staffs will form the executive force which, under Plotkin's direction, will execute the companies' new program of expanded activity.

Gardner and Bonin, well-known throughout the industry, will devote much of their time to sales, sales service, marketing and merchandising of current and new products which will encompass a complete line of skin and scuba diving products.

Plotkin stated that Gardner, nationally recognized as a top marketing expert, in addition to acting as consultant in home office, would spend much of his time in the field in meeting with jobbers through-

out the netd in meeting with jobbers through-out the nation, establishing a close working relationship between client and company. Bonin, as consulting sales director, will work at the companies' California headquarters, where in addition to concentrating on sales, he will aid in the development of new products for the sport. He has been associated in the underwater field com-mercially for years, and was a member of the Navy's Underwater Demolition Team. He was Diving Officer/Submersible Operations Officer assigned to training frogmen, testing and evaluating new under-water equipment for the service, and nu-merous other operations including rescues, searches, down-plane exploration and salvage work.



Executive team of Sportsways, Inc., pause on a survey tour of their west coast plant to inspect their latest model. Left to right are Dick Bonin and Jim Gardner, marketing and sales; Fred Plotkin, chairman of the board; Sam Lecota, chief engineer; and Irving York, sales manager.



Please address all notes, letters and stuff to:
"DRIFTWOOD"
Skin Diver Magazine
Lynwood, California

"The wraith of dawn, the evening's haunted mist ... No charm ignored. Man's heart cannot resist These ancient lures that call him to the shore To venturings that beckon ... evermore."

DON BLANDING
A Grand Time Living

Aloha, you guys . . . I don't know how it is around your beach, but the sands surrounding these plankings get a bit bleak and lonely at this time of the year. Were it not for the comforting murmur of verbal tides, rising and falling with the regularity of natural unrest, I might be mildly tempted to make a warming fire of the old jetty and be done with it. However, while I'm torturing myself with this dismal notion, have a cup of jetty coffee and a squint at what this month's tide washed in . . .

You, being one of the social lions, can perhaps help me with a problem of great socio-religio-economic consequence. After diving for several years in the New England region (yeh, I know, most people dive in water), I developed a strange condition: my face began breaking out in fur to insulate it against the cold water. I'm not sure if this is contagious, but I have noticed similar symptoms appearing upon some of my socially-disoriented associates—usually complicated by dark glasses to hide their embarrassment. Anyway, this situation, while favorable to comfortable diving, seems to have a pronounced, adverse effect upon my social life. Total strangers call me 'beatnik' and other names, and the chicks avoid me as though I had the plague. Any help will be appreciated as I am getting awfully tired of associating with these crazy-honeys in leotards and pony-tails. And who is this cat, Gillette?

D. B. WILDER Washington, D.C.

I don't quite understand. Who's wearing the leotards and ponytails—you or the crazy-honeys? Now I'm as confused as your group.

I think your column is really great! It's one of the things that makes SDM worth reading! Don't let those cats bug you about your picture: keep it on the page—it gives extra Zip! There's something for you to print! I don't blame you for blasting the clubs, either. And, from one skin diver to another, may I say 'Well Done'?

WALTER FRANKE

St. Thomas, Virgin Islands I can't stand anything 'Well Done' and I might as well admit it. I'm strictly a Medium Rare man, myself.

Do you have any idea of how intriguing you have made your Driftwood column by the simple, but effective, method of challenging women in reference to skin diving? Speaking as a woman who loves to dive and whose interest in Driftwood has held since I first discovered your marvelous jetty—I often wonder if the girls ever stop to think what a crafty, very fascinating fellow you must be in person. It's obvious that you know how to sustain interest because nobody I know would dream of getting their copy of SKIN DIVER without immediately reading Driftwood. This is pretty good showmanship on your part, and I just want you to know that this woman appreciates your skill.

JANICE ENGSTROM Hutchinson, Kansas In

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Ahhhhhh, you grateful dolls are all alike.

People seem to think that there is some kind of secret in writing your witty remarks. Actually, there is no secret at all: for all you are doing is placing words in rows on paper—this being quite simple because all the words are in the Dictionary.

JOHN J. CUMMING Norfolk, Virginia

Go ahead, blabbermouth-RUIN me.

As you already know, I'm a fisherwoman and I've heard the skipper (as well as passengers) berate skin divers for coming too close to sportfishing boats—especially when a school of yellowtail is concentrated around the boat. I've actually seen a diver spear a yellowtail right out from under a fisherman's bait! Personally, I don't think this is sporting of the divers since we fishermen must pay a fancy fee just to go fishing—and most of us can only go once weekly, and sometimes not even that often. Is this practice done by comparatively few divers? And isn't there a moral (if not legal) point involving this practice among divers in general? I'd like to hear an opinion from you on this.

LOUISE McDOUGALL Cardiff-By-The-Sea, Calif.

Now, listen, Lou, I only took one lousy little yellowtail, see?

UNSUNG HEROS OF DIVING HISTORY

Scattered here and there throughout the dramatic pages of Diving History are numerous, lurid personalities whose important contributions to the sport have sadly gone unoticed and unlauded. Here, then, for the first lime, is recognition presented to these intrepid pioneers for having widened (if not actually impoired) the scope of the skin diving sport as we know it today. . . .



OMAR CRINK . . . courageously did absolutely nothing at all for diving posterity by putting his wild theory—that barracuda can be taught to fear and respect divers by the simple expedient of biting them first—into practice.

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OUGALL -Sea, Calif. il, see?

DRY

I now call on your overwhelming knowledge to answer one simple question. I read a letter, in the August SDM about boating enthusiasts using the Divers Flag as a racing buoy. What I want to know is: Can anything be done to them, legally, if—in the process of surfacing near your own flag—the person in the boat runs you down? Provided you're still alive.

DON SANDLER, JR. Rolling Hills, Calif.

You think I hand out legal advice for FREE?

Kohler, our worst enemies have (shudder) banded together—women surfers! They not only have to invade skin diving, but now they're trading diving secrets for surfing secrets. What can we do? I ask the great Kohler (king of the coffee-swillers and doll-oglers), what can we do? Can we kill them before they multiply?

JOHN BYRUM Larchmont, New York

Don't count on me. I can't even drum up the courage to pinch sandfleas to death, anymore.

When I read the August SDM, I was dismayed to find 11 pages devoted to Gold Diving. It seems ridiculous, to me, that over 15% of a good magazine (excluding several pages of advertisements) was devoted to the part time hobby of a great minority of skin divers. Whatever happened to the good articles on spear-fishing, new techniques, championships, etc.?

R. P. BILLINGHAM Slort Hills, New Jersey

You don't dig gold, eh?

What can we divers, who live in Chicago, do to have the city change some of its laws on scuba diving? Why aren't aluminum tanks approved? Why aren't you in favor of female skin divers? I know a couple of them that can dive better than some guys I know.

MARSH RIZER Chicago, Illinois

Answering your burning questions in the order you put them:
(1) Fight city hall, (2) Steel is safer, (3) Who needs them along on trips, cluttering up the boat with their curves, smiles and wiles?

What's with you? Every column of yours features a tid-bit from either an Easterner or a Westerner. You know, there are divers in the Midwest—also, guys who have never dived in that salty brine along the coasts. How about us fresh water men?

STEPHEN STIGLEITNER Downers Grove, Illinois

Yeh? Well, what about you?



I've been reading your column for a few issues now and I think you may have a few brains in that horrible mass you call a head. I've been diving for over two years, but I still sink. Last time out, I got a fin caught in my air hose. Fortunately, I was aboard a boat at the time. The only thing I don't like about diving is I can't send wish-you-were-here postcards to friends; the stamps don't seem to work too well below sea level. I only read Driftwood to look at the cuties there. Enclosed is my contribution. It's about 1925 vintage. God help the boys in 1925.

BILL MacHARRIE Cambridge, Massachusetts

Oh, I dunno — I've seen worse stomping around 1960's beaches in bikinis. As a bonafide Surfer I feel it's time I opened my yap and made a few concise remarks about the general relationship of Surfers to Divers. I figure you'll probably let me have my say-so in print because you value equality in *Driftwood*, and because my surfing buddies and I have decided somebody really should give the skin diving faction The Word about our great world of sporting activity. Surfers and Divers have a lot in common, but where the average Diver seems to dig formality in his or her club associations, we Surfers only want the absolute end in informality. Therefore, we sure understand your screams for more emphasis upon the individual and less importance given to paper-work committees and regulation-happy people who sacrifice water time for organization glory. I think more Divers would do themselves a real favor if they'd investigate our way of life. Many Surfers dive, but few divers know how to surf—or have ever experienced the exciting adventure of surfing. Maybe we should all get together and form an On-the-water Society of America, huh!

GREG BILTERSON San Diego, Calif.

You do and I'll beat you over the head with the nearest surfboard.

Kohler, I got a pressure problem. Surely, you're willing—as an oldtime diver—to help a guy with a pressure problem? Whenever I want to cut out for a weekend diving trip, my wife, her mother and half a dozen relatives start pressuring me to take them along. Have you got some kind of practical solution which will ease this agonizing pressure every time I go diving?

HARRY OSBORNE Philadelphia, Penna.

Try clearing your ears by getting out of the house before anybody realizes where you're headed.

I'm a guy who doesn't know a flipper from a flapper and I thought a wet suit was something you got when it rained unexpectedly, but my college roommate gets SDM and I read your crazy, mixed-up, lousebound 2 pages—and think it's great. I still don't know a lot about skin diving, but you keep up your vitriol, sexy photos and baiting of the eggheaded clowns who think you're something the kids caught in the rock-pool; and I'll sit on my duff and laugh with you, and make sure my roommate continues to pay his SDM subscription. All power to you, old boy!

DAVE LEITCH Wellington, New Zealand

Listen, if you want to impress ME, you dig down and buy your OWN subscription.

Haven't you been hitting unduly hard in your absurd efforts to knock Clubs—and, particularly, the *Underwater Society of America*? It certainly showed your poor taste and vulgar mind when you nastily replied to that fellow who was nice enough to extend an invitation to you to attend the wonderful convention in Texas. Just who do you think you are, anyway?

MARY K. GREENE Orlando, Florida

The last of the vulgarly minded individuals with poor taste. Who else?

You've been on that jetty so long you're beginning to get horny! What's with you? I mean, you're always knocking pretty girls, teenage divers, women divers, scuba diving and even diving clubs. What's the matter—can't you swim? Or is there something wrong with the coffee you're always drinking?

RANDY RUSH Fresno, Calif.

Well, it does have a little rust in it, but . . .

... and wasn't THAT a breath-grabbing trip through the hazardous depths of human outrage. We do it all the time around this wretched jetty for want of better kicks. If this sort of wicked adventuring appeals to your warped mind, be sure you're clambering up these sagging planks next month. Bring a couple of crazy-honeys with you for atmosphere, eh?

UNCLE KOHLER'S KREEP KONKLAVE

Personality Spotlight BY CONNIE JOHNSON



DORT BIGG

ORT S. BIGG has proven an invaluable asset to the Northeast Council in his capacity as judge advocate. His qualifications for the Council post are numerous for his business career is that of a lawyer.

Entering a private law firm in Concord after graduating from Boston University Law School cum laude, he practiced two years when he accepted an appointment as assistant to Louis C. Wyman, Attorney General of the State of New Hampshire. While in this office he successfully briefed and argued two cases before the U.S. Supreme Court, He then accepted an appointment by New Hampshire Senator Styles Bridges as Assistant U.S. District Attorney for New Hampshire. He filled this position for a year. Then one of the state's oldest and largest law firms made Dort a tempting offer which he accepted. He is still associated at this time with Wiggin, Nourie, Sundeen, Nassikas and Pingree of Manchester, New Hampshire.

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In 1953 Dort made his first dive and immediately fell in love with the sport adding it to his other pastimes of skiing. hunting, fishing, wrestling, gun collecting, target shooting football, and chess. It wasn't long however, before skin diving took precedence over his other hobbies. His interest in diving was generated by a group of divers he met of Southern California. He is an ardent spearfisherman, but shares an equal devotion to wreck diving and lobstering He has taken over 1300 lobsters during one summer of diving. Averaging five to six dives per week, he is extremely fond of night diving since this seems to be the only time he can afford from his schedule.

Dort joined the New Hampshire Sea Skates two years ago and at that time became a member of the Northeast Council. A year later he was appointed as the Council's Judge Advocate, a position that he has filled beyond the wildest expectations of the Council. A fellow Council member said, "he has given generously of his valuable time by attending every meeting of the Council, many out-of-state meetings, performed services that would normally have cost a client thousands of dollars, offers and gives free legal advice to all clubs in the Council and never asks for any thing in return except 'When are we going diving?' "

For years he dived in the spring, summer, and fall without the warming benefit of an exposure suit. In fact 1959 was the first year that he donned an exposure suit since he began diving seven years ago.

Perhaps the greatest asset to divers as a whole lies in the remarkable success he has had with the various state legislatures. To date, his lobbying experience has been one hundred percent successful. He has from time to time been very much in demand as a speaker on the subject of diving and has created invaluable good will among audiences throughout New England.

Dort's achievements can be better appreciated when it is realized that all these things have been crammed into just thirty years.

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Nancy demonstrates how to make fish prints, using simple materials. This art is as old as history and proves to be fun for everyone. Photo by Ed Dowd.

by JEAN DOWD

You'll LIKE making Japanese fish prints. The next time Dad brings home a catch, you can record for posterity that the fish he caught really was that big (or that small.) And Mom will enjoy hanging the framed prints in the living room or den—as long as there are OTHER fish to fry.

Would you like a diving Pen Pat? Send in your name, age and address and we'll print it in the Jnuier Fin Fans column. Write to: Junior Fin Fans Underwater Mailbox, c/o Skin Diver Magazine, Lynwood, California.



Neacy Kudo admires fish prints made by Toshiko Wilkinson. Sumi ink was used to point fish. Photo by Ed Dowd.

Materials Needed!

Newspapers

Paper towels

Black calcimine (the paint you use in school)

Liquid laundry starch

Wide, soft bristle brush Rice paper

Ding

Pins

Spread newspapers over table. Mix paint by adding

liquid starch until it is thick and creamy.

Paint one side of fish. Remove excess paint by blotting entire fish with a paper towel. Lay rice paper over fish, pressing carefully over each part of fish. Peel back rice paper slowly to avoid tearing.

Experiment by making a few sample prints on paper towels or newspaper. A more interesting effect can sometimes be obtained by spreading fins and pinning them in

place before painting fish.

Experiment further by placing paper in water before printing. You'll get a softer, more subdued effect. If rice paper is unavailable to you, try using newsprint or oatmeal

Later on, you may be interested in making "on the spot" prints of fish or shells. Make a kit by placing materials in a small grocery carton. Now you're ready, on short notice, for that trip to the ocean or fresh water stream.

Finished prints can be matted inexpensively at an art supply store. If you prefer to frame them yourself, mount on black or grey construction paper, leaving a narrow margin along the sides.

The Japanese fish prints you see in art displays are printed with sumi ink on rice paper. Sumi sticks and

"palette" can be found at any art supply store.

There is an interesting Japanese folk tale about this ancient Oriental art. A peasant once caught a beautiful silver fish. The fish was really a Prince who, because of a spell cast by a wicked emperor, must remain this way until an emperor once again looked upon him. The fish begged the peasant to take him to the emperor, but the ruler refused to have the fish brought before him. It was thus the peasant conceived the idea of making a print of the fish. The emperor looked at the beautiful fish print and the Prince once again became his true self.

You'll enjoy using these exotic framed prints in your home, but don't forget their possibilities as gift items. You'll find friends will appreciate such an unusual

"painting."

NATIONAL ASSOCIATION OF UNDERWATER INSTRUCTORS

(FORMERLY NATIONAL DIVING PATROL)

By NEAL HESS

Executive Secretary, NAUI, and Director, Instructor Certification Underwater Society of America.

Complete information on the National Association of Underwater Instructors training course in Houston, Texas, will appear in the forthcoming November issue of SDM.

Named to the Board of Directors during the training course were John C. Jones, Broward County Aquatic Council, Garrald H. Howland, Capt. USAF, representing the first underwater instructor's class, and Al Tillman. Jones was named to pool work, lifesaving and first aid, Howland standardization and Tillman instructor certification and recertification.

Certified instructors by the National Association of Underwater Instructors

Edward D. Ezekiel 1048 El Camino Real Redwood City, California Thomas Magee 153 Hillview Avenue Redwood City, California Samuel R. Pick 4005 W. Francis Spokane, Washington Richard W. Kimball 1018 Crockett Avenue Harlington, Texas Richard F. Rogers 7406 Girard Ave., Apt. 6 La Jolla, California Ray Pelle 4922 Swaps Lane Louisville 16, Kentucky William Gebhart 432 Rellim Drive Kent, Ohio Ralph Poplar 4937 Highland

Kansas City 10, Missouri



GARRALD H. HOWLAND



JOHN C. JONES

David C. Woodward S. 1720 McCabe Spokane 65, Washington Garrald H. Howland, Capt. USAF 164 Concord Road Biloxi, Mississippi Albert M. O'Neil 444 W. 100 St. Chicago, Illinois D. R. Tussey 108 Stafford Avenue Dayton 5, Ohio

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Only a 1/4" wet suit will give you the necessary warmth and protection under all diving conditions. If you're planning to buy any wet suit, buy the most protection for your dollar. Prove it to yourself. Examine this issue cover to cover and you'll find Divers Den top quality $\frac{1}{4}$ " wet suits and kits the finest and most economical buy.

CHECK THESE FANTASTIC LOW PRICES. TRULY THE "BUY OF THE YEAR"

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swam into very dirty water and could not be found when a search was organized.

The southerly wind was becoming stronger by the hour and as time was running out we moved further south in search of more sheltered waters until we arrived at Yardie Creek itself. Here we were able to claim the dubious honor of being the first motor vehicle to cross over the bar since 1953, although it was touch and go all the way over the soft waterlogged sand and mud.

Having rid ourselves of the worry of crossing the creek we turned our minds to the more serious business in hand, namely—spearfishing.

In the sea at Yardie Creek, reef was almost non-existent. As usual, five feet of water was hard to find and there were plenty of sharks, rays and turtles.

Noel put a spear into the back of a huge seven foot skate which then took off towing Noel behind it, until the cord eventually broke. Half an hour later this fish was successfully landed and still had Noel's twisted spear imbedded in its back. It took four of us to lift the skate up for photos. The Yardie Creek proper is fascinating. Sheer red ironstone cliffs plunge straight down for 50 to 100 feet to the water and continue for another 35 feet under the water in places. This forms a ravine seven miles long which is filled with tidal salt water. Across the mouth is a soft sand bar which has not been open since 1953.

qdr.

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All the usual types of fish abound here, N-W snapper, shark, cod (small), golden trevally and mangrove perch (red jack).

While we swam as far up the creek as possible, in a vain effort to find some big fish, Ray De Vis took it easy, lying in warm water on a ledge two feet under the surface overlooking a 30 foot drop and proceeded to "knock over" several five pound golden trevally as they swam past.

The biggest fish seen in the creek was a 30-40 pound cod which successfully eluded all spears. Gradually the weather worsened, so the few fish we had caught were put into the icebox and we moved south once more in an endeavor to find more sheltered waters.

After calling in at Ningaloo Station, where we were able to send a radio message back to Bill Lucas at Yardie Creek Station to let him know we had arrived safely. We thanked the owner Edgar Lefroy for his help and information on likely fishing spots and headed for Point Cloates Whaling Station, where we spent a very comfortable night.

Cardabia Station waters gave us our first swim for several days. It was here also that we had our first real scare with sharks

Visibility was better and after a 200 ft. climb down crumbling limestone and sand, the boys went for a swim, leaving two men on guard on the cliffs above.

The spearmen were only 100 yds. out when a five foot shark appeared and swam rapidly toward them. A well placed bullet scared the beast. The last two bullets were fired into the water alongside the shark, but with little effect. The fish kept swimming, but much to our relief ignored the spearmen and continued on out to sea.

After a meal of "charred" goat, we called at Cardabia Station, where we were further directed to Skeleton (horrors!!?) Bay. Here we had our last swims before turning for home.

We inquired about the name "Skeleton Bay" (with one eye on the schools of Baracuda and sharks churning up the water in their search for food) and learned that at the base of a huge shifting sandhill on the beach, human bones had been found, including a couple of skulls. A search the next day revealed many bones, eroded by sea, sand, wind and time, but still recognizable as human bones.

No one in the area could tell us whether the bones were aboriginal or white man, so there we ceased our inquiry, once more having important matters on hand.

Skeleton Bay was almost paradise come true. A big sandy bay, a deep lagoon, sheltered by a long coral reef. Further out, stretching for three miles, was a huge mass of blue coral reefs. Along the shore line was a long channel with "deep" water of 10 to 20 ft. Hundreds of fish of all kinds and, wonder of wonders, crystal clear water.

Swimming in the lagoon, we had our first encounter with the legendary Barracuda, ranging in length from four ft. to seven ft. Long silver bodies as thick as your thigh, a thick boney head with rows of vicious teeth, which Charlie declared he could hear grinding as a small school of six swished past him in a blur of silver. Despite the tales of their ferociousness, we found that after one encounter with these beasts, it was impossible to get closer than 20 yards to them, no matter how careful we were. Any sound, or movement, caused them to turn tail and disappear. We did not see any more sharks, while in the water for the rest of the trip.

In the lagoon, small cod, darts (fish type!!) and a giant trevally estimated at well over 80 lbs. were seen, but all were too flighty and only a few small fish were caught.

Our ice ran out at last and the fish caught at Yardie Creek were found to be a delicate shade of green. Food was also low, so a batch of "scones" was made. Two "scones" were enough to immobilize a man for at least an hour and made a lead belt unnecessary for the rest of the day.

Despite the perfect conditions and swimming all day, no big fish were speared, so Ray and Noel walked up the beach to do some hand fishing. With the usual luck, they hooked a 7-8 ft. cod estimated at 400 lbs. which eventually broke the line and swam off.

Ray and I combed the area, but poor visibility, which had at last arrived, and big coral clumps made the search virtually useless, and the groper was not sighted again.

After tea, an overwhelming majority voted for a move for home by the inland road, without sparing the horses.

No brakes and poor lights made night driving hazardous. The only way to avoid smashing gates, which often appeared suddenly, was to do a quick circle in the scrub to slow down, while somebody opened the gate. Spinifex clumps are quite bumpy and hats, maps and occasional pieces of gear, left the truck, never to be seen again.

At last, dusty, dirty, unshaven, hungry, tired and disappointed at not having landed a giant groper, we arrived back at Carnaryon.

Another trip was instantly arranged for the future and applications called for. All vacancies were instantly filled.

Two weeks later, good visibility under a jetty gave the Carnarvon boys a field day, when they shot (and lost) seven giant groper between 200 lbs. and 600 lbs. and landed seven big trevally, all in 20 lb, range.

While reloading his gun on a cross beam, Noel had an unhappy experience. A groper tried to knock him off the beam into the water. After three tries, the beast swam off.

That's all till next trip. Good spearing to you all.

PHILIPPINES

(Continued from Page 20)

at the navy diving barge. The Navy has two well equipped diving barges, a large training tank, and a recompression chamber at Subic Naval Base.

A number of the Americans have built or bought boats and those with diving equipment often go out to the small islands off the coast of Luzon. You can also get a boat to go out to the clearer waters by renting a native Banka, Bankas are outrigger canoes with an outrigger on each side. They are sea worthy and the small ones are very narrow. It's about 18 inches or more from the water to the top of the side of the bankas and getting equipment in and out is difficult. A laced up inner tube dropped over the side on the water is a great aid in getting in and out with equipment.

For those living on Luzon the best place to go skin diving is at the Hundred Island National Park in Lingaven Gulf. This area is about 150 miles north of Manila and has a partly paved and partly graveled highway going to it. Available there is a hotel and restaurant and large bankas are for rent. These bankas will hold aboutten Americans or twenty Filipinos.

The Hundred Islands were formed by the uplifting of a coral reel along the west shore of the Gulf. The tops of these little coral islands are about twenty feet above the water, and they have been eroded along the water line until they look like toadstools. The reef from which these islands were formed is still very much alive below water. It is said to have more different kinds of corals than are found at any other place of it's size. Underwater visibility varies greatly depending on how large and muddy the rivers are but it is usually about twenty feet. This part of the Gulf is well protected from the storms and open sea and the growths of coral are larger and more intricate than found in rougher waters.

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GREAT BARRIER REEF

(Continued from Page 31)

with a reef across its ends. Here again the entrance contains big niggerheads and coral cliffs. On one memorable afternoon I shot two flower cod, each over 30 lb. (more than enough to carry back to the hotel) while John fired at a sudden movement, only to find himself on the end of a most annoved moray eel.

South Molle seems to have far more mud mixed with the sand, and indeed lucky is the spearman who gets 15 feet visibility. I encountered goodsized barramundi cod on the rocky points and shot nice 6-9 lb. trevally. Strangely enough the causeway side held few fish, parrot in the main. So, remember, the right-hand point is for

Hook Island, across from South Molle, holds excellent spearing in calm weather. The area contains many predatory fish — barracuda, mackerel and cod are well in evidence. The points near Nara Inlet are good, but the trouble is getting clear water. However, one day we had the best part of 30 feet and a good haul of blue grouper, coral trout and sweetlip was taken.

Southeast of Hook lies the island of Penticost, taking the form of a recumbent lion. Here is good spearing, while further away we have Shaw and Deloraine. All these provide good fishing but, though well out to sea, currents swirl and writhe, whirling small undersea sandstorms and causing patches of water so opaque that the gun vanishes from sight.

Outstanding in our memories are our attempts at the giant wrasse. The huge fish, looking a cross between a snapper and parrot, may be seen solemnly chewing the coral and shells, but rarely allowing the hunter within 20 feet. Twice I hit one, but each time I was left with only a scale for my efforts. Sharks are of little worry for, in some two months of diving I saw only four, and then only two over six feet.

The best diving is at Hayman and Hook, but the water was rarely clear enough to film and then I could only take stills. But hunting, if you can dive deeply and quietly, will be constant, though a good fish is about six pounds, the ones over 30 are not prolific.

Water transport is hard. If possible, take an outboard. Havman did not have a dinghy for hire, though small fishing boats could be obtained at a price. South Molle has dinghies, but here the rip tide makes rowing very hard.



New Diving Area Opened In La Paz-Bahia de Palmas

Jack Opperman (above picture) has re-cently informed SDM of a new diving area south of La Paz, Baja California.
Bahia de Palmas features thatched lean-to quarters with showers and meals at approximately \$5 per day per diver. The bay is easily reached from La Paz airport by taxi, costs are \$20.-25. In the above picture. Jack shows the results of one and a half hours diving time. From left to right are Cabrilla, Jewfish, Rooster fish, Pez Fuerte and Pargo Liso.

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Convention Thief

A sneak thief, operating in the manufacturers exhibit hall during the under-water convention in Houston, Texas, took Dacor regulator #22140. Air fill stations, dive shop managers and repairmen are asked to cooperate in locating this regulator. Many other items of diving equipment were reported missing from the exhibits, more serial numbers will be reported later.

Banish the Piranha!

Over the past couple of years a minor controversy has ebbed and flowed over the difficult question whether piranhas and other tropical species could become established in U. S. waters. This is one we'd hate to experiment with. We do know that such fishes as the Mexican banded tetra have dug in north of the border. Tilapia, probably desirable from several standpoints, have been successfully introduced into some fishing lakes in southern Alabama and Florida.

We're inclined to the belief that piranhas might be able to gain a toehold in a few of our most southern waters-if given the opportunity. We hope it won't arise. One group is especially nervous about the possibility, very understandably. This is the Underwater Society of America, Champaign, Illinois, which recently circulated a questionnaire on the subject.

Now, legislation has been approved by the House Judiciary Committee and is pending before the Congress which would make it a crime to import piranha into the U. S. The new bill (H. R. 10598) is designed to extend and clarify a list of mammals, birds, reptiles and fish that cannot be brought into the United States except for use by scientists or zoos. A Judiciary Committee staff member said testimony had been given that the South American man-eater could become a menace in southern streams. From the Sport Fishing Institute Bulletin.

44



Sweeaheart of the Boat Show—Karen Krancus, Queen of the 1960 Pacific Coast Boat Show, is sitting pretty on a beautiful ski boat. Karen extends a warm welcome to all California boat lovers to attend the nation's first public showing of the 1961 models when the show opens October 14th in Long Beach, California.

PUKA PARADISE

(Continued from Page 17)

a few more dives should do it. A deep crevice directly below catches your attention-now if I were a fish, you think, that's where I'd hide. As you pull yourself into the narrow gap, a rock cod scuttles from practically underneath your nose. You shoot, hurriedly, and are rewarded with a blunted spear tip for your effort. You surface, reload and dive . . . yeah, he's sitting right where you left him. You make certain this time, and nail him. This chubby little guy will add variety to your diet. Brown and yellow speckled, the rock cod's spiny exterior makes him more difficult to clean than the red fish, but he's worth the effort.

You head for shore, keeping a vigilant eye on the surf behind you—as vigilant as is possible when you have to watch the rocks in front of you. As you're complimenting yourself on your painless exit, your flipper snags on a lava slab, and down you go . . . all grace and beauty, aren't you?

Well, you've had a crack at Hawaiian hole fishing, and if you think you've enjoyed it so far, wait until you taste the fruits of your labors.



2008 Spruce St.

By DON C. KENLEY Philadelphia 3, Pa.

In keeping with its greatly expanded and diversified program, Council has launched its fall program with enough activity to occupy three councils—just remember, you asked for the activities, so take advantage of them.

Leading off will be the return appearance, on either October 15 or 29, of Stanton Waterman with his new films of the underwater excavations of the oldest Bronze Age ship discovered to date. After viewing the initial film — "Water World" — presented by this diver-photographer, the crowd of over 600 divers and their friends agreed that Waterman has few, if any, equals in the art of capturing the beauty and drama of the underwater world. The exact date of the program will be announced and publicity will be distributed to all clubs.

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A second highlight of the fall will be an acceptance of the challenge issued by the Illinois Council for an Intra-Council Scuba Contest to be held at a point approximately midway between Illinois and Pennsylvania. Watch Council minutes for the exact date and location of this unusual event.

We have several other projects and programs in the planning stages and invite all club members, whether or not they are official delegates, to attend the Council meetings and volunteer their comments.

All too often divers fail to thank or show appreciation to some of the equipment manufacturers who go out of their way to encourage and help diving clubs and councils. They shrug off their responsibility with "why shouldn't they—it's good business." We of the MAUC wish to publicly thank Healthways for the help and service shown to our spearfishing team during the National Championships. Faced with a severe weight restriction due to air travel our divers contacted Herman Mancini, Eastern Sales Manager for Healthways, who immediately called California and arranged to have whatever equipment that might be needed waiting for the divers when they reached Laguna Beach.

Most MAUC Clubs are winding up the summer with trips to out-of-Council waters to see if it really is greener than ours. Such was the case with the Abington Sub-Mariners and the Depth Chargers. Both clubs have visited Lake George, New York, during the past few weeks and returned full of tales concerning the excellent visibility.

Bill Horner of the Abington Club was fortunate enough to have witnesses to the approximately 40 lb. striper that got away, taking his spear point with it!! Several members of the Depth Chargers dived in Florida with former club member and former MAUC president, Don Mann, who now lives in the Sunshine state.

The Maryland Waterbugs and Martin Mantas have been enjoying excellent diving at the Lewes, Delaware, Breakwater. On their last joint outing, Dr. Paul Hackett of the Waterbugs had an unnerving experience trying to keep a 14 foot Mako from stealing some recently speared fish. While fish, gun and the Doctor all arrived safely at the Breakwater, there were moments when onlookers thought all three would be among the missing. Dr. Curtiss Marshall of the Waterbugs has returned from a two-month diving vacation in Mexico and recommends it highly.

The Philadelphia Sea Horses have invited the Underwater Explorers Club to dive with them on a recently located freighter off the New Jersey Coast. The wreck is in 110 feet of water and com-

pletely intact—one of the few that hasn't been dynamited as a navigational hazard.

As a matter of policy the MAUC invites all clubs in the Southern New Jersey, Pennsylvania, Maryland, Delaware, Washington, D.C., and Virginia areas to become members of the Middle Atlantic Underwater Council, but asks that clubs outside these locations contact the council that represents their area. For any membership information, please contact this correspondent.



By ROBERT HANSEN 3750 Ridge Road Highland, Ind.

As of August the council represents 10 paid-up clubs totaling 200 members. Our two newest members are the Poyal Divers of Indiana from Indianapolis and the Ohio Valley Divers from New Albany. Membership is rapidly increasing although the council is only nine months old. All clubs wishing information on joining the council contact the membership chairman, Don Reggaert, 922 W. Oak, South Bend, Ind.

Hosts at the next meeting will be the Indianapolis Aqua Divers. For date and further information contact the secretary, John Hudkins, 7521 White Oak, Hammond, Ind.

The Aqua Addicts had a diving skill contest for all members including compass course while buddy breathing, underwater speed swim, retrieving 35 lbs. of lead. The point system was used for scoring the events. Matt Hopman of the Aqua Addicts came in first with 25 points and runner-up was Art Bently of Neptunes Nephews, Inc., with 24 points.

The first Annual Indiana Skin Diving Council Banquet will be held on Saturday, November 12, 1960, at the Hotel Van Orman in Fort Wayne, Ind., at 5:00 p.m. Council club members interested may contact R. W. Sullivan, 523 W. Broadway, Mishawaka, Ind. The price will be \$7.50

per couple. There will be a guest speaker, presentation of the member of the year award, films and door prizes. Reservations for this banquet will have to be made in advance. Overnight accommodations are available at the Hotel Van Orman.

We are proud to announce the publication of the Council's Monthly News Letter. All member clubs please send report on club activities to the editor, Robert Hansen, 3750 Ridge Road, Highland, Ind., before the 15th of every month.

Neptunes Nephews, Inc.—While recently exploring an abandoned quarry in northern Illinois, Gene Turner, Tom Babbitt and Carl Anderson found an old steam shovel which had been underwater over 60 years. Other items discovered were old buggies, tools, railroad tracks and an old brass whistle.



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By W. J. Curran & Herb Cutting General Post Office Box 1235 New York 1, New York

The Empire State Underwater Council's "Star Mop," held on August 14th, was declared a terrific success by Long Island's oyster growers and Council officials. Close to a half million starfish were plucked from the waters on and around the oyster beds. Bill Willis, chairman of the committee, along with the council officers, assembled 200 divers from New York, Connecticut and New Jersey. Congressman Styvesant Wainwright likewise supported the affair and donated a prize.

A spokesman for the Long Island Oyster Farms, Inc., which operates vast oyster beds, said that the contest represented a "fine alliance between sportsmanship and conservation." He watched with satisfaction as the divers made repeated trips to the scales set up on the beaches to weigh their catches. The starfish, he said, had threatened perhaps \$100,000.00 worth of oysters.

Further, benefit to the sport of skin diving was achieved by the amount of newspaper coverage of the event, along with radio and television, informing the general public of the good done by the sport.

Bob Maeurer and Dennis Koch, both of the All American Skin Divers, took first and second place respectively, and Bill Moriarti of the American Porpoises, took third place in the skin diving (no scuba) event. Butch Sup (his father is Ways and Means chairman for the Council) took first place in the scuba contest, followed by R. Griffith of the Long Island Underwater Explorers, and Ralph Day of the Long Island Sea Hunters.

From time to time most underwater photographers experience disappointments of heartaches, but none to equal those of Buddy Guarino and Tim Wallace of the Long Island Dolphins. Both divers spent many hours editing thousands of feet of 8 mm color movies shot in Florida down to 200 feet. On the way to the first showing it was left in a taxi and never recovered.

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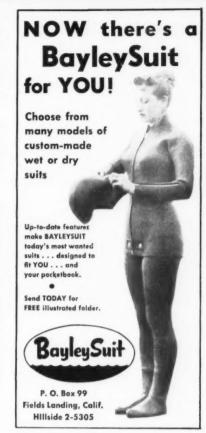


We are continually being made aware that our sport is growing at an alarming or, at least, remarkable rate. In the New that there is little need, for this 'being made aware.' If any group knows the extent of this 'growth', it is the membership of the Northeast Council. Certainly the Northeast Council has not stood still in the midst of these changing times. The Boston Convention which lead to the formation of the Underwater Society of America was the sole endeavour of Northeast.

Concerned with increased sport participation in our own area, the membership of the Council wholeheartedly approved of the first major change in its government in four years . . . in February of this year a new Constitution was ratified, officially organizing the Maine State Congress of Diving Clubs, the New Hampshire State Congress of Diving Clubs, and the Massachusetts State Congress of Diving Clubs. Still under the jurisdiction of the Northeast Council, the State Congresses were conceived to allow the individual states to better direct their own sport promotion and protection.

The Congress system has worked amazingly well, so well in fact, that the final benefiting move can now be made. A year of separate organization has strengthened each of the states to a point where the transition from Northeast Council jurisdiction to State Congress jurisdiction is a necessary and easy step.

Our annual Council meeting will be held soon and it is hoped that at this meeting each of the State Congresses will accept the following proposals . . . that, the first meeting of the Congresses in 1961 be considered as formation meetings . . Congress adopt its own Constitution and By-Laws, and elect its own officers at these formation meetings . . . following their formation, the Maine, New Hampshire, and Massachusetts Congresses petition for membership in the Underwater Society of America . . . the Northeast Council officially sponsor the three State Congresses for society membership . . . the Northeast Council cease to function, on a national level, as a 'multi-state' organization, upon the Society's acceptance for membership of the three Congresses . . . the Northeast Council remain as a friendly bond between the divers of the Northeast area . . . manage the area certification program manage the Newsletter . . . promote competition.





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WASHINGTON COUNCIL OF SKIN DIVING **CLUBS**

By Bob Staunton 3903 Ferdinand St. Seattle 18, Washington

Frank Wolff, Lee Morton, Chuck Gris-wald, Bob Staunton, and President Bill High, went to Houston, either for the Convention or the National Association of Underwater Instructors' course. Bill Mertz resigned from the Spearfishing Committee and Bill High appointed Dick Klien as the replacement. Barbara Boling now represents the feminine side of spearfishing affairs, and Dale Dean is chairman of the four "man" committee.

An interesting visitor has been diving in our Sound area lately. Miss Maxine Ford from the Island of St. Thomas in the Virgin Islands arrived a short while back on vacation. Maxine was trained by a U. D. T group. Your reporter had the pleasure of diving with her at Edmonds and can report that she does not appreciate our chilly waters after her Caribbean home, nor the wearing of a wet suit after constant diving in bathing suits. Neither is she happy with the abundance of kelp in some areas. Except for these annoyances, she seemed to be having quite a wonderful time and gave a general invitation to all Northwest divers to come down to St. Thomas, promising to try to set up tours of all the best diving spots around the island.

Bill High has been put in charge of Conservation for the Underwater Society of America. This task should be 'right up his alley' as Bill's interests have been centered in and around conservation for quite some

The Boeing Sea Horses sponsored an "all women's" meet at Rosario Beach in Sep-tember. Look for the Seattle Aqua Divers to reorganize within the next month. loss of their president to an Oregon firm left them high and dry, as they also lost their secretary and treasurer at about the same time. At present they are hard at regrouping.

Puget Sound Mudsharks-Reporter Paul J. Powers-The Mudsharks were in there again at the annual Barview meet in Ore-Keffler, Dean and McDaniels took first place and Keffler took largest fish.

It looks like the Mudshark gals are on the bandwagon with this spearfishing game. It's fantastic the things these gals go through just to organize a day for some diving practice. It's beginning to dawn on me that this women's competition has an awesome potential, 'cause this boy now knows what it's like to stand on the beach trying to corral a bunch of sprats while the gals are out there shooting up the finned game. All this was in preparation for the first women's meet on September 25 at Rosario Beach.

Seattle Seafair Holidays show the people of the Northwest a heap of fun and frolic. It also gives the Mudsharks a chance to show the folks how to spearfish. First, second and fourth fell to the club in the annual Seafair Spearfishing Tournament on July 31st. Keffler, Dean and McDaniels took first, with Way, Bates and Bates at second. Fourth place went to Stockdale, Smith and Everret. Stockdale also took another big fish trophy.

We've acquired a new member and an old diver, Bob Staunton, who is now a Mudshark. Some of the boys are reaching real far out for diving experiences. Former endurance record holder Mac Thomson teamed up with the Diving Dean of the San Juans' Bill Huckins to attempt recovery of a 24-foot boat involved in the tragic drowning of a three-year-old girl at

Bob Fulton and Keffler recently recovered some interesting articles in the bay. A Chinese spice jar and a Chinese wine bottle were dated by Millard Rogers, assistant director at the Seattle Art Museum, in the 18th century, around 1785.

MISSISSIPPI.

Mississippi Gulf Coast Menfish-Gulfport—Reporter Bill Craig—In July, 22 members of the Menfish went to Morrison Springs, Florida, for the first of two annual weekend outings to the springs. During the first day we explored the first and second caves in the spring, at depths of 50 and 115 feet. That night, using underwater spotlights, we dived into the 115 foot cavern. Curious catfish and eels swam about us in even greater abundance than on our day-time dives. The following day, Tommy Phelps and Ron Caywood were able to enter a third cave, which is accessible only by squeezing through a tiny opening in the middle cave. This third cave is a gigantic chamber that funnels down to a depth greater than 300 feet. A second trip was planned.

We are very proud of one of our mem-bers, Jane Ann Lizana, who won the title of Queen Spearfisherette at this year's Mississippi Deep Sea Fishing Rodeo. Our club was active in promoting the spearfishing division of this rodeo, which is one of the largest fishing rodeos in the world with over 5.000 entrants in the three divisions—fresh, salt water and spearfishing.

MASSACHUSETTS **COUNCIL OF DIVING CLUBS.** INC

By RICK VAHAN

300 Harrison Ave., Boston 12, Mass.

Two children are alive today thanks to a film distributed by the Boston Sea Rovers. The Sea Rovers obtained a film on mouthto-mouth resuscitation earlier this year and promptly offered it free to all member clubs of the council. Then they extended their offer to any and all groups interested in viewing the film.

Requests for the film were fantastic. After the audience count passed the 5,000 mark, the Sea Rovers stopped counting. Late in the summer, members of the Sea

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Rovers learned that two persons who had seen the film, an instructional movie, had applied what they learned from it to save two children. This, said club president Jerry O'Neill, was the finest compensation they could have for showing the movie.

O'Neill visited the East Coast headquarters of the Navy's UDT in Norfolk, Va., not long ago. He did a bounce dive to 190 feet in their chamber. The frogmen were anxious to see just how well a civilian could dive. He showed them by getting a record for a fast descent.

Meanwhile, Jerry's brother Mike ONeill, who works underwater from New England Divers, was at Texas Tower II on a job again. Average current at the tower, Mike reports, is ten knots. A rough place to

work.

The Gardner Skin Divers Club won three trophies, including first place in the dub competition, at a New England area meet held recently at Beverly. The winning club team consisted of Curtis Cote, Harold Hill and Conrad Gill; Jeff Schreiner, Robert Brown and J. Emile Cormier.

Robert Brown took second place in the individual diving event and Brown and J. Emile Cormier placed third in the twoman team event.

The beach buggy is certainly not a new innovation in the state. The striped bass fisherman have been using them for years to prowl the otherwise inaccessable beaches of Cape Cod, but as far as we know Emile Cormier, has the only one used just for skin diving. The buggy, made from an International cab-owner truck, has in it, four bunks with foam rubber mattresses, gas stove, sink, refrigerator, table and you name it, he's got it. The rig is equipped with over-size tires deflated to 10 PSI for travel on soft sand. Emile reinfates the tires for hard road travel using a Vigo tank and filler line.

Bob Cabral heads the council's newest dub in Provincetown, known as the Deep See Club with headquarters at his shop, The Reef, on Commercial St.

The Fitchburg Skin Divers have discovered what appears to be an anchor graveyard off Rockport, Mass. The club retently discovered a 300 pound Navy-type anchor. On the second trip within a 150 ft. radius of the first anchor several others in the 75 to 200 lb. class were found. The "hooks" lay in 75 to 100 foot depths and their condition would indicate they have been there for some time.

Bob Blake climaxed several weeks of research when he and Ernie Demchek returned from a recent dive with a solid piece of oak deck. They hint the next trip may yield some Revolutionary War Naval cannon.

The Aqua Pros of Gardner, to better were their area, have joined facilities with those of the New Hampshire Civil Air Patrol, Jaffrey Squadron, as well as fire departments and Civil Defense units in surrounding towns.

The combination of air and underwater rescue operations is one of the first of its kind in New England. The unique set-up has already been tested for efficiency. Last Sunday the CAP notified the local group of a simulated plane crash in Dublin Lake, N. H. The Aqua Pros were quickly on the scene to rescue a dummy, which represented the pilot, from the waters of Lake Dublin, during an efficiency drill with the CAP squadron.

Organized five months ago, the Aqua Pros are already being equipped with twoway radios in their cars and homes, enabling the fastest possible response to emer-

gency calls. SKIN DIVER—October 1960

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By Sonny Logan 3772 Matador Dr. Dallas 20, Texas

We had a convention, and what a convention it was. Everything was great. The line-up of movies was very good. The line-up of movies was very good. guest speakers captivated the audience with interest. The displays were interesting. I saw many new features of equipment, got some new ideas for my old stuff, and brought home an arm load of literature.

There is another factor at conventions that stands out in my memory and that is the association with new people you meet and personalities you beforehand only read about. You really get to know people here. You can discuss ideas and get their views as well as giving yours. This is one of the unadvertised features a convention as this holds. I met many new friends.

The Board of Governors of the Underwater Society of America spent many an hour in session while at the convention. Your Society leaders are doing a good job and while lengthy and time-consuming they stick to it with commendable patience. There are some fine leaders here and the nation they represent can be justly proud.

To sum up, I say it was a huge success. Everyone who missed it, don't make that mistake again. Make your plans and reservations right now for New Orleans and I'll be setting on the door step when you get there

At the Chance-Vought spearfishing contest held at Lake Travis the water was low and murky in spots but the big ones were brought in. In the scuba division; Bob Lupton, Ft. Worth, first, with a 17.9 lb. buf-falo. Second was Tommy Phillips of Chance-Vought, 16.16 lb. buffalo. Third was Milby McDonald, Austin, 13.3 lb. buf-falo. Team totals: first, Jack Farleigh, Bob Lupton, Ray Meisenhalder of the Ft. Worth club with 78.3 lbs. of fish; second, Tommy Phillips, Johnny Jones and G. M. Fulgham of the Chance-Vought club with 32.13 lbs.; third, Bud Wheeler and Billie Huddleston of Ft. Worth with 29.11 lbs. Billie Huddleston, one of our council's better lady divers, has been doing well in competition this year. She placed in this contest and has won several trophies so far.

In the skin diver's division, Sonny Logan of the Garland club came in first with a 9.2 lb. carp; second, Les Hart of the Garland club with an 8.8 lb. carp; third, Mack Blaker of Almeda with a 3.12 carp. Teams were: first, Sonny Logan and Les Hart with 35.4 lbs. which also was second pla in the entire contest. Second place was Mack Blaker, Ronnie Caffey and Per Peterson of the Almeda Club with 14.

Council Championship Standings

Scuba Divers: first R. C. (Bob) Lupte Ft. Worth, 21 points; second, E. A. Clid and Jack Farleigh, both of Ft. Worth, I points each; third, Russ Bebout, Ft. Worth 12 points; fourth, Jack Church, Ft. Word 10 points; fifth, Ray Meisenhalder, Ft. Worth, 9 points; sixth, Floyd Pack, h Worth, 7 points, and Johnny Jone, Chance-Vought, 7 points. Skin Divers: fing Sonny Logan, Garland, 19 points: second Mack Blaker, Almeda, 11 points: third Ronnie Caffey, Almeda, 9 points: fourth Les Hart, Garland, 8 points; fifth, Pet Peterson, Almeda, 7 points; sixth, Floy Almeda, Parker, Almeda, 6 points.

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We have two new clubs in the counci the Scuba Club of Longview, Texas, with Richard Wilgus as president, and the South Central YMCA Skin Divers of Houston Texas, with Robert Flood, Jr., as presiden

Three more big contests are planned this year. The Garland Club plans a "Buffale Rodeo" at Lake Travis, the Longview Scuba Club plans one at Possum Kingdom and the "Gar Rodeo" at Lake Bistinea These will be sanctioned contests, so every one still has a chance at the yearly chan pionships.

We of the Southwest Council deeply re gret the death of Jack Walden. He was true friend and an active participant of the sport. Our heartfelt condolences are se to his wife, Margaret. A Memorial Troph will be presented at the next contest in h

NEW YORK ...

Syracuse Aqua Kings, Inc. — Reported Donald C. Waterman—Utilizing a portab training tank the Syracuse Aqua Kings Inchave been promoting safe skin diving and the Divers Flag in a series of demonstration in area shopping centers. An explanation equipment on display coupled with pract cal demonstrations in the tank present mo of the fundamental safety procedures skin diving. This series has been of partic lar interest to the beginning independent divers as well as to parents of young diver Merchants in the shopping centers, loca newspapers, radio and television station have been most cooperative in the entire project.

South Shore Sea Kings-Brooklyn, No. York-Reporter Jean Baker recent Council activity this club particle pated in was the Starfish Mop held in Huntington ington, L. I., with the club placing in the No. 8 spot, skin diving. Ed Shaw, more recently described on the radio as an unidentified diver, tried to aid the police de partment in the search for the body of the young boy who drowned in the Gowanu Canal. Although Ed dived for several hour in the murky water, his efforts were in vair and the boy's body was discovered by the

There are more dives being planned con stantly and a quarterly trophy was intri duced and accepted by our membership along with the yearly trophy. Membership still remains open and as before we would prefer divers with previous experience. Ad ditional information can be received from Jean Baker, 2556 E. 23rd St., Brooklyn.

We are working toward the opening of at least one beach or several bays in the If we could contact the Bay Ridge Diver Association committee, we feel the con bined efforts of the two clubs might read a goal sooner.

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Standings Bob) Lupton, E. A. Clici , E. A. Click t. Worth, B h, Ft. Worth enhalder, Ft. yd Pack, Ft. hnny Jones, Divers: fine oints: second points; third oints: fourth

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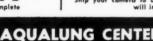
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SOUTHEAST COUNCIL OF SKIN DIVING CLUBS

By BUD COX

P. O. Box 42543 Miami, Florida

On March 15, 1960, President Eisenhower signed a proclamation establishing the first underseas park in the United States, the Key Largo Coral Reef Preserve. This park lies in the waters off Key Largo (50 miles south of Miami) and in establishing the preserve the President said: "This undersea coral formation is part of the only living reef formation along the coast of North America and it is in the public interest to preserve it for the benefit of all people."

Forty distinct species of coral have been found on this chain of reefs out of a total of 52 known for the entire Atlantic reef system. The general types of coral found here are commonly known as staghorn, moosehorn, leaf, hat, star, starlet, finger, brain rose table incore formatted.

brain, rose, tube, ivory, flower and cactus. The 21½ mile park extends from Whistle Buoy No. 2 on the north, past Carysfort light, the Elbow, Dry Rocks on to Molasses light and extends west an average distance of 3½ miles. The barrier reef is not an unbroken line of coral, but is composed of numerous shallow reefs, some of which break the surface at low tide. These

MAMARONECK

reefs have been known to sailors back to the time of Ponce de Leon who named the islands behind them Los Martires, the martyrs. Many of the early sailing vessel came to rest on these reefs to such a extent that during the mid 1800's Key West was the largest salvage depot in the United States. Many of the early resident of the Keys put out false marker lights at night to lure ships onto the reefs, thu providing more salvage work for the settlers.

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The avowed pupose of this park is the preservation of the sea floor and all in inhabitants, however, some doubts have been raised by observing the sponsors of this legislation taking groups of divers into the area to bring back hundreds of pound of coral for commercial ventures. One of fect of this preserve is to extend the Mon-roe County spearfishing ban beyond the three mile statutory limit since the United States claims authority within ten miles of land. Until the establishment of this park many spearfishermen launched their boats in Dade County (where spearfishing is legal) and proceeded in international waters to spearfish in this area, which is well beyond the three mile limit of the Monroe County spearfishing ban. The Key Large Coral Reef Preserve is not a federal park but a federal-state park and the legal que tion of enforcement has not been determined at this writing.

Mr. Emmet L. Hill, Director of the Florida Board of Parks and Historical Memorials (Post Office Drawer 1487, Tallahassee, Florida) writes: "The first draft of the rules and regulations is now in the office of the Solicitor General, U. S. Department of the Interior, for review, . . . Spearfishing will be prohibited in the Preserve. Skin diving will not be prohibited as long as no coral formations at

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overturned, disturbed, or removed. There will be a prohibition against the removal of bottom materials or artifacts from wrecks." Line fishing, both commercial and sports fishing, may proceed unhindered.



The second of the semi-annual Con-ference of California Councils held again at the home of Dr. Jerry Bastian with Cen-Cal as hosts, dealt mainly with electing a delegate to represent the three counat the Houston Convention. Ron Merker was chosen and instructed to submit and support proposed changes in the constitution of the Underwater Society of America and in the Competition Rules.

The North Pacific Coast Councils will be contacted and invited to participate in the ent CCC meeting which will be held Saturday, February 12, 1961, hosted by the Greater Los Angeles Council.

A proposed regulation limiting the taking of abalone only on days of minus tides once defeated, will be promoted again, and Cen-Cal was appointed to take action, and to contact the Department of Fish and

The CCC endorsed the continuance and expansion of the fresh water rough fish spearing program and has offered assistance in gaining new areas and longer seasons. The final fresh water meet of the season held July 23 at the American River below Nimbus Hatchery attracted 132 men, women, and children, who hauled in nearly half a ton of rough fish during the six-hour meet. Because the current drifted the competitors to the finish line hours before the end of the meet, cars and trucks were on hand to drive the divers back up to the starting line as many times as necessary throughout the meet. Feather River Divers have already assured us that the Inland Clubs are already working with the Department of Fish and Game to set up dives for 1961.

Northern California Skin Divers Annual Individual Spearfishing meet with 99 divers entered, saw Dee Marsh of the Oakland Eels with 40 lbs. 2 oz., take first place, and Ralph Asturias of the Panther Rod and Gun Club with 35 lb. 1 oz., taking second place trophy. Ralph Nonelli, Monterey Sunfish, was awarded the largest fish

The Oakland Eels, Panther Rod and Gun Club, and other clubs have joined the East Bay Barnacles to help set up the popular annual star mop to be held at Bodega Bay November 13. Prizes are diving equipment donated by local shops and clubs. Profits will go to the Cen-Cal diving

Because of response regarding radio hams, the council is contemplating setting up an information bureau through hams to give divers two-hour weather conditions. Interested parties may send call letters to secretary Archie Waterbury, 338 Beach Road, Alameda. Cen-Cal shoulder patches are still available at one dollar each.

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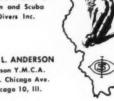


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ICey NEWS

Illinois Council of Skin and Scuba Divers Inc.



By A. L. ANDERSON Lawson Y.M.C.A. 30 W. Chicago Ave. Chicago 10, III.

On August 14, 23 divers of nine clubs tried for IC certification at the Keymen's Club in Chicago. Only five failed to complete the basic tests and eight of the remainder finished the full range of tests which qualified them as "expert divers". Certified divers listed below by club and name are: certified Argonauts, David Brunn, John Muller; Aurora Aqua Masters, Lloyd Schmidt, Jr.; Depth Probers, Ken Reidenbach; Kane County URT, Sam Everett, Bob Lang, Louis Le Compte; Northwest Divers, Glenn Larson, Dick Watson; Los Pescadores Pobres, Chuck Check; certified expert Aquanauts, Dick Malpass, Joe Strykowski; Kane County URT, Doug Martner, Jack Kane; Nep-tune's Nephews, Steve Foster, Walt West; Los Pescadores Pobres, Ray Hoglund; Silent Explorers, Val Williams.

The next certification examination is scheduled for January. This program sets a standard of minimum knowledge and

ability for the IC diver.

October 9, Lawson YMCA, a free showing of Cousteau's "Silent World" will follow the IC's Autumn General Assembly which starts at 2 p.m. That's a Sunday, and Lawson is located at Chicago Ave. and Dearborn Streets in Chicago.

Jack Springer, Illinois Athletic Club, took two fourth places at Grand Isle with a barracuda aggregate of 109 lbs. and for the fourth largest cuda, a four and half footer weighing 28¾ lbs. Team members with Jack were Dick Labahn, Graham Johnson, Renee Springer and Jack Ward-

The IC's second Instructors' Certification Seminar is on the November calendar. Look for literature on exact location and

details. Plans for the 1961 IC Awards ban. quet are well along. The committee in headed by Gabe Spatero, 5537 W. Diversey, Chicago 39, Ill.

Underwater Recovery Team-Reporter Dan Wagner-I wish to personally thank all the members of the following skin dis all the members of the following skin ga-ing clubs for their reliability and good work on recent URT calls: Chi-Aqua, Atlantis Divers, Associated Divers, Coral Divers, Harvey Orcas, Scubateers, Murky Lurkers, and the Muffin Men. Without the civic-minded divers in these clubs, re coveries would have been impossible. The Vermillion County URT and Kane County Sheriff's URT have done a highly commendable job so far this year in handlin calls for their respective areas.

The URT now has its own photographers, Alan Chenoweth, Harvey Oreas, and Clarence Asbach, Aquanauts.

Aqua Raiders-Reporter Joe Soldat-We've been very active, a dive a week a minimum. Most of our diving has been in Lake Geneva and the Coal City strip

We gave an SSD demonstration to the local Boy Scout troop and brought enough air along to give the small fry a chance to make like Mike Nelson.

Compleat Gogglers-Reporter Rober Blanc—We hadn't been on Grand Baham Island 24 hours, for a vacation, when w inherited a diving job to free some pipe lines fouled by an oil tanker. No other salvage crews were available and tanker were stacking up along the coast line We made the necessary midnight dive un der spot lights, a half mile out of Freepor Harbor.

There was great diving off Smithi Home and Dead Man's Reefs, with thing to do and see ranging from 10 to 85 ft We speared 12 to 20 lb. grouper and snap per in depths to 55 ft.

Fathom Divers-Reporter John Missing —Although we sometimes go to Lemon Quarry and rarely to the strip mines, our favorite dive site is off the Planetarium at 12th St. in Chicago. From this arm we've dragged up marine lantern benches, anchors, and even a 20 ft. s boat, besides assisting in body recovery for the fire department.

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GR 8-0609 fornia

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There are nine of us in the club, all graduates of Dan Wagner's course. We are the former Chicago Shark Punchers.

Clearing Diving Club—Reporter Dave Rooney — We're seriously considering changing the club name to the Belmont Harbor Lost and Found Bureau. Within this area we have retrieved any number of articles for personnel of the moored yachts. Most notable was an expensive Bell & Howell movie camera, located in about 20 ft. of water and determined to be reparable by a happy owner. That par-ticular recovery had a CDC team made up of Mike Malec, Rich Pekan and my-

Vermillion County Scuba Divers-Reporter Ed Carter—Our club passed its second anniversary in July. We may be considered small as clubs go, with only considered smail as cruip go, with only deven members, but the entire membership is very active in instruction, promotion, URT and just plain diving. Lee Somers is certified as an instructor by the IC and was also a member of the IC's spearfishing team which went to California. We have our own reserved pond where the clarity of the water makes for real good fishing.

Leyden Frogmen-Reporter Ginny Druz -After the check-outs at Elgin Quarry, we began weekly meetings at the Leyden High School pool, Divemaster Dick Perry

acting chairman.
Artist-member Harvey Reimers, with eleven original emblem designs, made it coast line difficult deciding on which to choose.

We've dived at Lake Geneva and Racine Quarry and are checking other sites.

THANK YOU!

Andy Anderson of the 20 Fathom Club extends a special note of thanks to Dick Long of Stan's Diving Shop in San Jose, Calif., and the San Jose Divers Club for the royal treatment on dives and at meetings during the month of August.

CALIFORNIA ...

Sea Horsemen—Los Angeles—Reporter Carol Shaw—A new skin and scuba diving club, the Sea Horsemen, has recently been a 20 ft. sil formed and is affiliated with the Greater recovery fut Los Angeles Council of Divers and the Underwater Society of America. At the last meeting, officers were elected for a period

of one year. They are president, Bill Snow; vice-president, Cliff McCartney; recording secretary, Jim Des Roches; treasurer, Jack Held; corresponding secretary, Carol Shaw; and trip chairman, George Blakey.

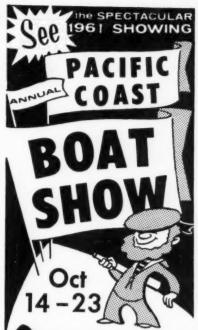
Meetings are held on the first and third Mondays of every month from 7:30 p.m. to 9:30 p.m. to discuss club news, diving information, and plan future diving trips. Anyone interested in skin and scuba diving is welcome to attend the meetings at the Valley Swim School, 13731 Riverside Drive, Sherman Oaks.

Sierra Aqua Fins—Chester—Reporter Joan Barker—Thirteen divers have formed a new club with officers Charles Barker, president; Walter Clark, vice-president, and Joan Barker, secretary-treasurer. The club assisted at the Lake Almanor Regatta as an underwater safety committee.

South Sea Searchers-Guam-Reporter Ron Schneiderman—Around Andersen Air Force Base on the island of Guam are 70 aficionados of the diving world who would rather be sitting on the bottom of the ocean than at their desks or work benches. This salty seventy are a well organized group of skin divers bent on enjoying what nature has to offer them in the way of adventure. Adventure, as the Searchers undertake it, consists of gliding effortlessly submerged in the waters surrounding Guam in search of fish, coral, shells, or just for the joy of exploration of some of the best diving waters in the world.

The club's two-week training course, is presently under the direction of M/Sgt Edward Landry who is assisted in the training program by A/2C Jim Davis and A/2C Frank Polley. The course is made up of lectures on club rules and regulations, diving physics, use and care of equipment, a swimming test, and a shallow water check in full scuba diving dress before heading across the reef. The swimming test, designed for the better-than-average swimmer, consists of an underwater swim of 75 feet followed by a surface swim of 1,000 feet. After this, the prospective diver is briefed on the new mouth-to-mouth method of artificial respiration and the best ways of towing a diver

Newcomers are always welcome to attend the two-week training period and be-come proud wearers of the South Sea Searchers patch; the sign of a lover of the waterlogged luxuries of life.



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NEW JERSEY

COUNCIL OF

DIVING **CLUBS**

By BATTIST BRIDE 48 Sheridan Ave. Metuchen, N.J.

The New Jersey Council of Diving Clubs presented proposed legislation for the control of sport fishing and skin diving to the New Jersey Federation of Sportsmen Clubs at the September meeting of the Federa-tion. A copy of this legislation was sent to 53 known clubs in the state, council and non-council members.

The Council is planning a largest fish derby, and a dance and program affair for the month of November. Send all in-quiries to Earl Gager, 414 Kerrigan Blvd., Newark 6, N.J.

The Council has written a letter to the Newark Star Ledger sports writer-columnist Nelson Benedict for his anti-skin diving column. Mr. Benedict's reply via his column was very brief compared to his denouncement of skin diving.

Stanley Meltzoff of the Underwater Fishermen of N. J., Inc., speared a 21 lb. 8 oz. blue fish off the Allenhurst shores... This is an unofficial world's spearing record for a blue fish. The world's official record for a hook and line blue is 24 pounds plus. The fish was so large for that species that Stan was not sure what he had speared at first, later positive identification was made through Bob Kislin's shop in Asbury Park,

Who is finding the lead or tin ingots on the ocean floor these days? Who said diving does not reap harvests?

A new dive shop has recently opened in the Perth Amboy-New Brunswick area. It is known as the "Reef" and is operated by Chuck, Richie, and Al.

Ken Bachman of the Raritan Valley Ken Bachman of the Kartian valley YMCA skin diving club recently found several old muskets in Lake George, New York. They were found in forty feet of water. Ken turned most of them over to the Fort Henry Museum at Lake George.

Earl Gager of the Reaquanalts is spending a week diving at the tip of Cape Cod, Mass. George Grieshiemer, Charlie Shapario and several other members of the Metuchen Underwater Divers, Inc., made a trip to Lake George, N.Y. Diving was interesting with Bob Kovatch recovering Diving was some old pieces of ships believed to be over 200 years old. Eli Baltin of the Metuchen club has recently returned from a diving trip to the Thousand Islands where he did some underwater photography.

Art Nelson and Battist Bruno of the Underwater Fishermen of New Jersey, Inc., speared their first striped bass of the season, both in the Long Branch area. Sam Watson, vice-president of the same club, is holding the record for the number of striped bass speared this season, with Mal Kerr and George Simons running close behind. Howard Rowland, president, recently rescued



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a teenage girl who had wandered out alongside a jetty.

The Council was very pleased to read in the Jersey newspapers about the Empire State Council of New York concerning the starfish mop they held to save the oyster beds on Long Island.

Raritan Valley YMCA Fin Club—High-land Park—Reporter Stephen Taylor—Our club is one of those that never stops diving. From the 38° waters of the Farmer's Quarry in February to Lake Wallenpaupak to the warmer (?) waters of Sea Bright and Elberon this summer. This year we also have been busy giving club lectures and demonstrations.



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CONNECTICUT COUNCIL OF DIVING CLUBS

> LEONARD GREEN P. O. Box 1446 New Haven, Conn.

Texas may be a big state but Connecticut outdid Texas this time with the world's record black fish speared by Ronald Patrick of the Connecticut Underwater Diving Association. On August 19-21 this record fish was on display at the first annual Un-derwater Society of America Convention in Houston, Texas, and no doubt everyone got an eyeful. This monster of the sea was taken with a sea lance, mask, fins and snorkel. Ronny says that he's looking for the grandfather of the black fish that he caught. Who knows, at the next convention we may have another world's record on display.

The second scuba meet of the year was held on July 24 at the Montowese House beach in Branford. Earl Dugan and Kip Trembly of the Milford United Divers ran off with first place and the Nemrod Trophy which was given by the Seamless Rubber Company. Second place was taken by George Brown and Eric Wilson also of the Milford Club.

The duties of publisher, editor and sports department reporters of the Council paper have been taken over by Frank and Janet White of the Shore Line Sounders. The circulation department will still be manned by Leonard Green. Any items of news will be cheerfully accepted. Address all cor-respondence to P.O. Box 1446, New Haven.

The next issue of "Skin Diver" will carry the report of the Connecticut Council meet held at Napatree Point, Rhode Island.

All clubs who have turned in their ap-plication forms for the Underwater Society of America should have their membership cards in the near future. As of this date we are represented by 24 clubs with a mem-bership of 373. If you have misplaced or lost the form given you, you can get another one by dropping me a card or pick one up at the next Council meeting.

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REGULATOR (1 stage, 2 hose, used once) and 70 cu. ft. tank. \$60 fob Gould, 281 So. Castanya, Menlo Park, California.

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FOR SALE—Aqua-Master Regulator, \$75. Also, Cressi fins, mask, depth gauge, knife, snorkel. Used three times. Jack Paris, 717 No. Orlando Ave., Los Angeles, Calif. Call OLive 3-3864.

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Dacor, 70 and res. New \$140.00. Send check or money order: S. Gesmundo, 926 Davis St., Kalamazoo, Michigan.

U.S. DIVERS AQUA-MASTER regulator, 18 cu. ft. tank, both used once, plus standard tank, \$85. Parkinson, 612 Avenue H, Boise, Idaho.

FOR SALE—Complete (full) Pirelli dry suit (waist entry), used five times, excellent condition. Size, medium, \$35. Bruce Sheirr, 6 Roxen Road, Rockville Centre, N.Y.

MARK V MORSE helmet, old suit and shoes, \$100.00. Lightweight Pearl Diver helmet, suit and shoes, like new, \$150.00. New underwater gas cutting torch, \$125.00. Morse two man lightweight air pump, \$75.00. Frank Thompson, Box 2097, Torrance, California. Phone FAirfax 8-5215 evenings.

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CORNELIUS COMPRESSOR 130R1500, 115 volt AC with carbon filter, \$595.00. Walter Kiddie 4 cfm, 3,000 psi 220 volt three phase complete with filters, \$525.00. W. Wayne Jordan, 32 Evelyn Street, Johnson City, New York. SW 7-9184.

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TEACHERS—A treasure cruise is being planned for scuba diving teachers next summer. If interested, send experience to A. H. Campbell, Box 1003, Meeker, Colorado.

INGERSOLL-RAND compressor model 3321 unit in excellent condition. Price \$300.00. T. C. Hamill, Box 7276, Tuscon, Arizona.

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SKIN DIVERS
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The Alabama State Skin Divers Association has been growing by leaps and bounds. Since the beginning of the year, enthusiasm has sparked from clubs all over the State of Alabama. Tom Gleaten, our training and safety officer, has been working hard on our training program.

Early this summer the association me in Montgomery to make the necessary changes in the by-laws and constitution. In July, the executive board met in Birmineham to select the winning emblem in the statewide contest. Pat Ward of Montgomery received the prize which was a speargun. Plans were made for the first Alabama Spearfishing Competition held Labor Day weekend. Clubs from Huntville, Auburn, Enterprise, Ft. Rucker, Gadsden, Birmingham, Tuscaloosa, Mobile and Montgomery competed.

and Montgomery competed.

Officers are: Woody Meeks, president:
Bill Warr, vice-president: Ruby Payne, see
retary-treasurer: J. C. Miller, entertainment and publicity; Charlie Lopez, by-law
chairman: Tom Gleaton, training am
safety officer; Tournament Chairman,
Willard Jackson, Chairman of Women's
Diving Competition, Jerrie Wagner.

BRITISH COLUMBIA . . .

Victoria Sea Searchers—Reporter Daw Dorman—Vancouver Island is considered among the three top spots in the world for marine life, and visibility. A diver can normally go to 150 feet and be assured of seeing from 40 to 70 feet at any time in the year. This year some of us in the club have become interested in concology (shell collecting) and would like to hear from other collectors, and possibly we could do some trading. We do not have the bright smooth shells of the tropics here, but for a real concologist the addition of foreign shells is always welcome.

The fish that receives the most attention is the Ling Cod, as secondary choices we will shoot the Red Snapper, Rock Cod or Cabazone. We also are fortunate in beint able to shoot the odd halibut which can easily weigh well over a hundred pounds, but their season is short and they are deep. Some of our divers have found that skate wings are also good eating. The perch and bass in this area normally run small (around seven pounds maximum) so are not shot too often. This year we have not broken any records for size of ling cod, but we have taken six fish in the last month over forty pounds, and that is good inshing anywhere.

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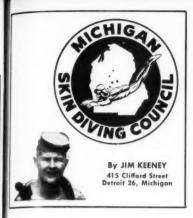
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Sea Kings Diving Club of Detroit, Inc.-Reporter Pat Novak-Our recent weekend Reporter Pat Novak—Our recent weekend dive at Glen Lake and the Island of Manitou was such a success we decided to repeat the trip over Labor Day. Last weekend three members of our club found a runabout in one of the lakes near Detroit.

We have initiated a training program for those aged sixteen to twenty. Also, we have been working with the Coast Guard Auxilonce in a mock invasion of the port of Detroit and twice demonstrating diving safety measures.

Midstate Divers - Lansing - Reporter Bob Everett — The Midstate Divers have been active since the first of 1960, Our new officers are: Fr. Luke McMillian, president; Eric Thomas, vice-president; Pat and Al McCort, secretary and treasurer; Bob Everett, underwater instructor.

Our underwater instructor is a graduate

of Underwater School of Deep Sea Diving and was a member of the U. S. Marines Recon and U.D.T. Team. In the last few weeks he has been added to the instructors at the Y.M.C.A. here in Lansing.

At present our club is discussing the planting of different species of fish from conservation breeders - any suggestions along this line will be greatly appreci-

ONTARIO ...

Thunder Bay Skin Diving Club-Port Arthur-Our newly formed club welcomes all visitors to the great Northwest, Recently four club members assisted Ontario Provincial Police diver, Johnny Harrison, (club secretary-treasurer) in recovering three victims of a boating accident from Arrow Lake. >

The club of the month is the Midland Skin Divers. This club is to be congratulated for the fine booklet which they pubished and distributed to all the diving clubs in the state. It contained helpful diving formation and also the known air stations in the state. The officers are: Ron Williams, Emest O. DeVincent, and Roberta Gransden. Mail may be directed to Roberta Gransden, Route #2, Beaverton, Mich.

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Council Members: A new and novel way advertising the Divers Flag will be preented at the November 13th Council meetng in Lansing—plan to attend.

Congratulations are in order for the Gaseo Scubaneers who donated a special fund called the "Recompression Chamber Fund" to the M.S.D.C. Approximately \$400.00 was raised by the Scubaneers, with the cooperation of the member clubs of the president M.S.D.C. Chairman of the drive was Ray

> Viking Diving Club-River Rouge-Reporter Fred Lovasz-A successful angling contest with the Detroit Aqua Divers was held at Big Fish Lake. There were seven orizes awarded according to the aggregate weight of fish. To make the day even more iteresting, we were approached by a man who dropped his motor about seven miles went in search of the motor and not only came up with his 71/2 H.P. but also a 25 H.P. one.

We are quite proud of having 23 successful 100 foot divers in our club and hope to have more this weekend. There will be a rophy representing our club put in 105 feet of water at Maceday Lake. All club members who have achieved their 100 foot dive will have their names displayed on this trophy.

Detroit Aqua Divers—Reporter Leona Langford—Our officers are: Harold Webb, president; Edward Langford, vice-president; Carl Marine, treasurer; Bill Watkins, secretary; Matt Hogan, swimming instructor; Bob Crane, diving officer; Bob Dunne, entertainment chairman.

We have 34 club members, all active divers, including two senior lifesavers, and presently six other members are taking the course: also, ten members have completed their 100 foot dive. Our club has generously graduated twelve Boy Scouts through an eight-week course in scuba diving; instructor was Matt Hogan. We are also proud of our Higgins Lake record in which we took 3rd, 5th, 6th and 9th places in the two events.



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	Cura	COMPRESSED AIR	Continued on Next Page 41

ober 1960 SKIN DIVER-October 1960



(Continued from Page 61)

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MISSOURI ...

Knights of the Deep-Kansas City-Reporter Sandra Joan McCowan - The president, water instructors, and treasurer with his wife represented our club in the Grand Isle Derby in Louisiana. Although they can't brag about catching the biggest fish, at least they can sure state that they had a wonderful time. We also charged on Blue Springs as a

club. The water visibility was very good. Colored pictures taken at the dive were shown in one of our meetings.

KENTUCKY ...

Mermen - Lexington - Reporter Estill Lyons-Most of our club members are also boaters. New registration laws in Kentucky went into effect August 1, that require all boats over 12 inches to be registered, mini-mum fee \$3.50 per year. We are trying to get all boaters in Kentucky to unite and to educate them to the fact that they are paying 11 cents on each gallon of gasoline they use on the water, when this tax is for high-

Therefore, we believe you and I are entitled and should expect, demand and work diligently to require our Kentucky Department of Safety to use our money to provide us with the following: Educational programs and demonstrations to teach us, the public, safe boating. Provide free and safe unloading facilities conveniently located for all boats, on all of our rivers and lakes, in all of our counties that have water, to be used for these registered boats. Enforcement of boating laws designed to protect our lives and property, seven days a week, and not on weekends only.

We in Kentucky intend to seek these provisions to which we are entitled; we hope you in other states will do the same. Let us unite and work together, and all boating will be better for everyone.

Piranhas of Louisville - Reporter Bert Pence-Way up here in the hills of Kentucky we've formed a new skin and scuba diving club. It's Kentucky's newest and fastest growing club.

We would gladly accept any suggested advice any of you other clubs would take time to give. I am the president of this club and if you out there are half as active as we are we should get some response to this letter.

ARIZONA ...

The Blub Blub Club — Phoenix — Re-porter Robert McDannold—We have been in the process of organizing since last summer. We are all lifeguards in Phoenix. Our requirement for membership is that the prospective member be a holder of a Senior Lifesaving Certificate.

As our work keeps us busy during the summer, when most of the other skin diving clubs around here are going on trips, we decided to form our own club and plan our trips during the other times of the year. Last Christmas we spent a week in Guay-mas, also a week over the Easter vacation.

We are one of the seven charter members of the Arizona Skin Diving Council and are now eighteen members strong, and have a prospective member list of twelve others. We are a co-ed group, as we do have several girl lifeguard in this area.

Because of our club the City of Phoenix Parks and Recreation has allowed me, and assisted me, in getting a Jr. Frogman Program under way. With the help of Don Vyne, Aquatics Supt. of the San Diego Parks and Recreation, we have set up a similar program. Our first graduation of these juniors saw 200 of them receiving certificates.

Sub-Aqua Job Opportunities^o

This column is offered to any and all employers seeking divers for various positions in their firms. Copy should be brief quiving complete name and address and state requirements needed from applicants. This is a service to the industry and the sport offered at no charge for the space used. Applicants for the jobs listed should write direct to the advertisers and not to "Skin Diver Magazine."

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